

***PERFLUOROCARBON (PFC)-CONTAINING FIREFIGHTING FOAMS
AND THEIR USE IN FIREFIGHTING TRAINING IN MINNESOTA***

DELTA PROJECT NO. A008-110-0

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1.0 INTRODUCTION

1.1 Purpose and Scope of Services

Delta Consultants (Delta) was retained and authorized by the Minnesota Pollution Control Agency (MPCA) to conduct research into the presence of perfluorocarbons (PFCs) in firefighting foams and the use of these foams in firefighting training in Minnesota. Specifically, the types of firefighting foams that contain or contained PFCs, and the locations where the PFC-containing firefighting foams are or were used in firefighting training in Minnesota, were researched for this project.

The goal of this research plan is to identify sites in Minnesota where certain types of PFCs of particular environmental concern at this time, perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA) and perfluorobutanoic acid (PFBA), may be present in the environment due to the repeated use of firefighting foams at firefighting training locations.

1.2 Scope of Work

The following scope of work was conducted under Master Contract Number A48440 and Contract Work Order Number SFDE0810.

Task 1 – Research Outline

Delta prepared a research outline, including issues to be addressed and questions to be answered by this PFC research project. The outline was submitted to the MPCA for review and comment at the start of this research project to ensure that Delta would meet the project requirements and expectations of the MPCA.

Task 2 – PFC Background Research

Delta's background research included review of readily available information on the chemistry of PFCs, current State and Federal guidelines related to the PFCs of concern (PFOS, PFOA and PFBA), and the health concerns associated with those PFCs.

Resources for Task 2 included PFC research already conducted by the MPCA and information available on the websites for the MPCA, Minnesota Department of Health (MDH), the U.S. Environmental Protection Agency (USEPA) websites, and others.

Task 3 – PFC-Containing Fire Suppression Foam Background Research

Delta researched the history and development of firefighting foams and the use of PFCs in foams, identified the past and current manufacturers and types of PFC-containing firefighting foams, identified the major users in Minnesota of PFC-containing firefighting foams, and identified Federal or State regulations regarding the use of PFC-containing foams.

Resources for Task 3 included the following: information available at the websites for various manufacturers of firefighting foams; websites for various firefighting organizations and entities, including the Minnesota State Fire Marshal, the National Fire Protection Association, the U.S. Fire Administration, the Fire Fighting Foam Coalition, and the branches of the U.S. military; and, numerous periodicals available at the Fire/EMS/Safety Center Library of the Minnesota State Colleges and Universities (MNSCU).

Delta also surveyed the U.S. manufacturers of firefighting foams to obtain information regarding the foam brands they currently produce and historically made, and whether or not PFCs are or were used in the production of those foams.

Task 4 – Interviews

Delta interviewed the following persons regarding firefighting foams, users of firefighting foams in Minnesota, and locations where fire fighting foams are or were historically used for training purposes: Dr. Jennifer Field, professor at Oregon State University and researcher of PFCs in firefighting foams; Mr. Tom Cortina of the Fire Fighting Foam Coalition; Mr. Mitch Hubert of Tyco Fire & Security, makers of Ansul foam products; Mr. Jerry Rosendahl, Minnesota State Fire Marshal; Mr. Don Beckering, State Director of Fire, Emergency Medical Services and Safety Training at Minnesota State Colleges and Universities; Mr. Robert Berg, Homeland Security Planner with the Minnesota Department of Homeland Security and Emergency Management; Ms. Barb Meyer, Forestry Program Coordinator with the Minnesota Department of Natural Resources; and, Ms. Toni Howell, Manager of Environmental Affairs at the Metropolitan Airport Commission Environment Department.

Task 5 – Questionnaire Mailing

A questionnaire regarding the use of firefighting foams in fire training exercises was mailed to users of firefighting foams in Minnesota identified in Task 4, including all fire fighting departments identified on the Minnesota State Fire Marshal's website (www.fire.state.mn.us), firefighter training colleges in Minnesota, airports with dedicated fire departments, Minnesota's two oil refineries, and Camp Ripley. The questionnaires requested information regarding the types and amount of firefighting foam used in fire training and fire response, the locations of the training areas used by the fire departments, and the fate of the spent foam used in training.

Task 6 – Table of Fire Training Sites

A table of fire training sites where PFC-containing fire suppression foams are or were used was prepared. Information summarized in the table includes departments/agencies/entities using the training site, the site size and locations (address, latitude/longitude, or other description), the types of firefighting foams used, the estimated monthly or annual amount of foam discharged at the site, whether or not the site is active or inactive, and whether or not potential receptors were identified within a certain distance of the site (see Task 7, below).

Sites were ranked based on the types and quantities of foam discharged in training exercises and the presence of potential nearby environmental receptors and their proximity to the site. Only responding fire departments and schools were included in the ranking.

Task 7 – Receptor Survey

Delta consulted the MDH's *County Well Index (CWI)* (www.health.state.mn.us/divs/eh/cwi/) to identify water supply wells and groundwater monitoring wells that have been registered with and mapped by the MDH, and wellhead protection areas near the training areas. The CWI mapping program includes topographic maps that were used to identify surface waters near the training areas. Potential receptors around firefighting training sites were identified to a one mile radius.

Delta also referenced the U.S. Fish & Wildlife Service's *National Wetlands Inventory Mapper* (<http://wetlandsfws.er.usgs.gov>) to identify wetlands located within one mile of the training sites.

Task 8 – Training Site Summaries

Information for firefighting training sites ranked with the highest identified potential risk to the environment was compiled into a Training Site Summary. Information in the Training Site Summaries included information identified in Tasks 6 and 7, plus contact information for each site, well logs for nearby water wells identified on the CWI, and any other pertinent site-specific information.

Task 9 – Report

Delta compiled the information gathered in Tasks 1 through 8 into this comprehensive report.

1.3 Limitations

Delta's research and this report are subject to the following limitations:

- Delta obtained, reviewed, and evaluated information available from Federal and State entities and published media, and provided voluntarily by fire departments, firefighting foam manufacturers, and other knowledgeable persons. Delta's services do not include the verification of the accuracy or authenticity of this information.
- Delta did not perform any site reconnaissance or directly observe any of the fire training sites. Information regarding the locations, arrangements and physical characteristics of the training

sites are inferred from information obtained from the fire departments and maps and other publicly available information.

2.0 PFC BACKGROUND

Perfluorocarbons (PFCs) are a class of man-made chemicals derived from hydrocarbons, where the hydrogen atoms have been replaced by fluorine atoms. PFCs are characterized by chains of carbon atoms of varying lengths to which fluorine atoms are strongly bonded, making PFCs durable and hard to break down (1). PFCs have been used since the 1950s to produce industrial and consumer products that are heat and stain resistant and water repellent (2). PFCs have been used in a variety of products including stain-resistant fabrics and carpet, coatings for food packaging, non-stick cookware, herbicide and insecticide formulations, and firefighting foams (2)(3)(4).

2.1 Chemistry of PFCs

There are three classes of PFCs considered for this project: perfluorocarboxylates, perfluorinated sulfonates, and fluorotelomer sulfonates (5). Perfluorocarboxylates are fully fluorinated carbon molecules with a carboxylate group on the end of the chain. Perfluorinated sulfonates are fully fluorinated carbon molecules with a sulfonate group on the end of the chain. Fluorotelomer sulfonates are partially fluorinated molecules. In referring to fluorotelomer sulfonates, the ratio of the number of fluorocarbons (X) and hydrocarbons (Y) are presented as X:Y. So, a 6:2 fluorotelomer sulfonate has six fluorinated carbons and two hydrocarbons in the fluoroalkyl chain (5).

PFCs may have various functional groups attached, such as sulfonate, octanoic acid or butanoic acid groups, making the following compounds which are the focus of this research:

- perfluorooctane sulfonate (PFOS), $C_8F_{17}SO_3$, an 8-chain carbon compound, has no specific case registry number; the parent sulfonic acid is listed under case registry no. 1763-23-1. PFOS is a perfluorinated sulfonate.
- perfluorooctanoic acid (PFOA), $C_8HF_{15}O_2$, an 8-chain carbon, case registry no. 335-67-1. The PFOA acronym refers to perfluorooctanoic acid and its principal salts. The most common chemical in this group is the ammonium salt, which is also known as C8. PFOA is a perfluorocarboxylate.
- perfluorobutanoic acid (PFBA), $C_4HF_7O_2$, a 4-chain carbon, case registry no. 375-22-4. PFBA is part of the perfluorocarboxylate group.

PFOS, PFOA and PFBA are persistent in the environment and do not degrade under environmental conditions (USEPA, MDH).

2.2 Manufacture of PFCs

PFCs are manufactured using one of two methods: the Simons electro-chemical fluorination (ECF) process used exclusively by 3M; or, a telomerization process (6)

2.2.1 ECF Process

The ECF process used exclusively by 3M generates fully fluorinated compounds in branched- and straight-chains with both even and odd numbers of perfluorocarbons (6)(7). Perfluorinated sulfonates are made using the ECF process. The chemical of interest in the ECF process is perfluorooctanesulfonyl fluoride (POSF), $C_8F_{17}SO_2F$. The final degradation product of POSF and its derived products include PFOS and PFOA (8). PFOS can only be produced by the ECF process or by the degradation or metabolism of other fluorochemicals produced by ECF (9). PFOS does not degrade except by combustion, and is persistent in the environment (9). PFOA can result from the manufacture of PFCs by both the ECF process and a telomerization process (see **Section 2.2.2**) (6). It is not clear from available literature if PFBA is made using the ECF process.

3M discontinued their production of PFOA, PFOS and PFOS-related products in 2002 (10). There are other companies in the world that manufacture or supply PFOS and PFOA, and there are stockpiles of firefighting foam made by 3M and the ECF remaining (11).

2.2.2 Telomerization Process

The telomerization process creates a fluorinated telomer that is different from an ECF-made fluorinated molecule in that they only have an even number of fluorinated carbon atoms and the molecule is predominantly straight-chained (6)(7). In addition, the fluorotelomerization process inserts an ethyl group between the fluoroalkyl chain and the functional group on the end, which differentiates the atom from an ECF-process fluorinated molecule. In referring to fluorotelomer sulfonates, the number of fluorocarbons (X) and hydrocarbons (Y) are designated as ratio X:Y. So, six- and eight-chain fluorotelomer sulfonates (FtS) would be referred to as 6:2 FtS and 8:2 FtS, respectively. Perfluorocarboxylates (including PFOA and PFBA) and fluorotelomer sulfonates are made using a telomerization process.

All U.S. manufacturers of firefighting foams except 3M use a foam surfactant made with a telomerization process. Analysis of fluorotelomer-based aqueous film-forming foam (AFFF) concentrate found that it contains a small amount of fluorotelomer sulfonates and that fluoroalkylthioamido sulfonates are the main anionic fluorosurfactant in the concentrates (5). According to Dr. Jennifer Field, a professor at Oregon State University and researcher of PFCs in firefighting foams and the environment, fluoroalkylthioamido sulfonates are a class of chemicals made by the telomerization process that share a common backbone but weigh more than the 8:2 and 6:2 telomer sulfonates. Dr. Field and her colleagues hypothesize that fluoroalkylthioamido sulfonates break down to 6:2 and 8:2 telomer sulfonates in the environment. Dr. Field indicated that currently there is little research data showing whether or not 8:2 fluorotelomer sulfonates can break down to PFOA, while some older research hinted that it may be possible.

According to Mr. Tom Cortina of the Fire Fighting Foam Coalition, telomer-based firefighting foams contain predominantly (75 to 80%) six-chain carbon fluorosurfactants (6:2 FtS), with varying percentages of eight-chain or higher homologues (8:2 FtS). According to a 2002 report, telomer-based surfactants biodegrade to a fluorinated carbon chain molecule, and that this fluorinated carbon chain molecule is not expected to further degrade. However, this final degradation product molecule has not been established but the two possibilities are perfluorohexanoic acid (PFHxA) or another unknown molecule (8). PFHxA is a shorter chain homologue of PFOA (8). More recent data regarding this unknown final degradation product molecule of telomer-based surfactants was not found during this project.

2.3 Other PFCs

To date most studies conducted by PFC manufacturers, the USEPA and others have focused on PFOS and PFOA. But the PFC classes include a number of fluorinated compounds of varying carbon chain length, including the following (12):

Chemical Group	Chemical Acronym	Chemical Name	CAS Registry No.	No. of Fluorinated Carbon Chains
Perfluorinated carboxylic acids, group includes PFOA. Compounds are possible breakdown products or manufacturing intermediates of other PFCs.	PFBA	perfluorobutanoic acid	375-22-4	4
	PFPeA	perfluoro-n-pentanoic acid	2706-90-3	5
	PFHxA	perfluorohexanoic acid	307-24-4	6
	PFHpA	perfluoroheptanoic acid	375-85-9	7
	PFNA	perfluorononanoic acid	375-95-1	9
	PFDA	perfluorodecanoic acid	335-76-2	10
	PFUnA	perfluoroundecanoic acid	2058-94-8	11
	PFDoA	perfluorododecanoic acid	307-55-1	12
Perfluorinated sulfonates, group includes PFOS.	PFTA	perfluorotridecanoic acid	not determined	not determined
	PFBS	perfluorobutane sulfonate	29420-49-3	4
Fluorotelomer Sulfonates	PFHxS	perfluorohexane sulfonate	355-46-4	6
	6:2 FtS	1-octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, ammonium salt	--	6
	8:2 FtS	--	--	8

Following 3M's decision in 2000 to stop production of PFOS-related fluorochemicals, 3M changed its fluorination chemistry and reformulated its products so that they are now based on a four-carbon fluorinated compound "cousin" of PFOS called perfluorobutane sulfonate (PFBS). 3M received USEPA approval for, and is now manufacturing, eighteen new PFBS-based chemistries (13).

Little information or research data is readily available regarding the chemistry of PFBA, or what compounds may break down to PFBA. Little information is available regarding specific uses of PFBA and these other PFCs other than to indicate they have been used in products such as stain-resistant fabrics and carpet, and coatings for food packaging. Some compound-specific product uses are as follows:

- 3M manufactured PFBA at its Cottage Grove, Minnesota facility through 1998. PFBA was sold to an industrial customer for use in making photographic film (14).
- PFBS is an active ingredient in 3M's new Scotchgard formulation (15).

2.4 PFCs in the Environment

The strength and durability of PFCs that make them ideal in a variety of consumer products also make them resistant to breakdown in the environment. PFOS, PFOA and PFBA are persistent in the environment and do not degrade under environmental conditions (16)(6)(MDH).

In Minnesota, PFCs have been identified at former disposal sites used by 3M in Lake Elmo, Oakdale, and Woodbury, as well as in the area of 3M's manufacturing facility in Cottage Grove. As part of its ongoing investigation of PFCs, the MPCA has conducted a variety of PFC sampling in Minnesota's ambient environment. Sampled media include shallow ground water in urban and agricultural areas, surface water in urban and remote areas, fish tissue in urban and rural lakes, multiple media at landfills statewide, multiple media at waste water treatment plants statewide, urban stormwater, and suburban air. A number of samples had no detected PFC, but PFCs were detected at low concentration in at least one sample from each media (MPCA).

PFCs in the environment are not limited to Minnesota and have been detected world-wide in environmental media, animals, fish, and humans. The reduction of PFCs as a greenhouse gas are part of the Kyoto Protocol. The Environmental Agency of England and Wales published in 2004 an *Environmental Risk Evaluation Report: Perfluorooctanesulphonate (PFOS)* (11). Other European countries (Austria, Denmark, Germany) have implemented phase-outs of PFCs (17). Austria's ban on PFC-containing fire extinguishers and foams has taken effect. The European Union and Canada have proposed a phased ban on the use of existing stocks of PFOS-based firefighting foams as part of broader PFOS regulations (18). While our understanding of the breadth of PFCs in the environment and the implications for the health of the environment and humans is incomplete and still evolving, PFCs are the subject of ongoing regulations and continued studies across the United States and world-wide.

2.5 PFCs and Human Health

According to the Minnesota Department of Health, nearly all people have some amount of PFCs in their blood. Studies by the Center for Disease Control and Prevention (CDC) published in 2007 found that PFOS, PFOA and PFHxS were detected in approximately 98% of the population (19). The way through

which PFCs are entering the bloodstream is not thoroughly understood at this time. Exposure could occur through the use of commercial products that contain PFCs, through exposure to contaminated environmental media (soil, air, water), or through food. PFOS and PFOA are bioaccumulative in humans and animals. Less is known about other PFBA PFCs in the body.

The USEPA has prepared a *Draft Risk Assessment of the Potential Human Health Effects Associated with Exposure to Perfluorooctanoic Acid and Its Salts* dated January 4, 2005. However, the report has not been finalized and cannot be cited or quoted. The draft report is available on-line at www.epa.gov/oppt/pfoa/pubs/pfoarisk.htm.

In January 2008 the Minnesota Department of Health issued its final report on health risks for PFCs (20). The report notes the following regarding PFCs and human health effects:

“There are a few studies of health effects in people. 3M studied the health of 3M workers exposed to PFCs during manufacturing and found no apparent harm to worker health. Two studies have been conducted to determine if there is a relationship between the health of newborn babies and PFC levels in the mother’s blood. Each study found a small decrease in birth weight or other measures of growth with increasing PFC levels in the mother. A health study of 70,000 people exposed to PFOA in drinking water in Ohio and West Virginia is underway. In general, these studies show that the levels of PFCs in the environment may be linked to changes in the body, but the studies have not shown that the PFCs have harmed people. Therefore, toxicologists have relied on animal studies to determine whether an exposure to PFCs may be harmful.”

In August 2007, the MDH set forth the following Health Risk Limits for concentrations of PFOS and PFOA in drinking water: 0.5 parts-per-billion (ppb) for PFOA and 0.3 ppb for PFOS. Since that time, additional research data has become available and the MDH has proposed a revised Health Risk Limit of 0.3 ppb for both PFOA and PFOS. The new research relied upon by the MDH indicates the health concerns related to PFOS are effects on the liver and thyroid; health concerns related to PFOA are effects on the liver, slowed development in fetuses, reduced number of red blood cells, and changes to the immune system.

The MDH indicates that sufficient toxicity data does not exist to calculate a chemical-specific health-based value (HBV) for PFBA. The data that are available for PFBA indicate that it is less toxic than PFOA, a similar chemical, and the MDH believes that 1 ppb is a protective number for PFBA, based on the most recent science, and is protective even of those who may have higher relative water consumption rates, such as pregnant women, nursing mothers and small children (MDH).

2.6 The USEPA and PFCs

In 1999 the USEPA began an investigation into PFOS after receiving data from 3M that PFOS was persistent, bioaccumulative and unexpectedly toxic (16). Ultimately 3M ceased production of PFOS in 2002. 3M also found PFOA in human blood as part of their PFOS studies (16). In June 2000 the USEPA

expanded their investigation to include other PFCs, including PFOA, in order to determine if other PFCs represent similar concerns as PFOS (16).

In 2003 the USEPA issued a request for information on PFOA and a solicitation to interested parties to develop enforceable consent agreements (ECAs) (16). To date over 1,300 documents have been submitted to the USEPA under this request, and are available at www.regulations.gov under docket EPA-HQ-OPPT-2003-0012.

A final ECA between the USEPA and AGC Chemicals Americas, Inc.; Daikin America, Inc.; Dyneon, LLC; and E.I. du Pont de Nemours and Company (the Companies) was published in the Federal Register on July 8, 2005 (21). In the ECA, the Companies agreed to perform incineration testing of four fluoropolymer chemicals to determine whether incineration of these fluoropolymers is releasing PFOA to the environment.

A Memoranda of Understanding (MOU) between the USEPA, 3M Company and Dyneon, LLC was executed in October 2004 for PFOA site-related environmental assessment program (22). The MOU calls for a phased approach for additional environmental monitoring and other data collection, particularly in the areas of soil, biota and off-site monitoring, at 3M and Dyneon sites in Decatur, Alabama. A similar MOU was executed in November 2005 between the USEPA and E.I. Dupont De Nemours and Company (Dupont) for the Dupont Washington Works facility in West Virginia.

In January 2006, USEPA and eight major PFC manufacturing companies (3M/Dyneon, Arkema, Inc., AGC Chemicals/Asahi Glass, Ciba Specialty Chemicals, Clariant Corporation, Daikin, E.I. duPont de Nemours and Company, and Solvay Solex) created the 2010/15 PFOA Stewardship Program. The companies committed to reduce facility emissions and product content of PFOA, PFOA precursor chemical, or PFOA-related homologues by 95 percent by 2010, and to work toward eliminating emissions and product content by 2015. As part of the program the companies submit annual reports on their progress toward reaching the goals. Information regarding the 2010/15 PFOA Stewardship Program is available at www.regulations.gov in docket EPA-HQ-OPPT-2006-0621.

Partially in response to 3M's phase out of PFOS-based firefighting foams and the USEPA's 2003 request for information regarding PFOA, several manufacturers of firefighting foams came together to form the Fire Fighting Foam Coalition (FFFC) to educate and help persuade regulatory and legislative decision-makers that foams are a valuable component in firefighting (www.ffc.org). The FFFC presented data to the USEPA under docket EPA-HQ-OPPT-2003-0012 showing that (1) C6 fluorinated surfactants are the key ingredient in telomer-based AFFF agents, (2) telomer-based AFFFs do not contain nor degrade to PFOS, and (3) telomer-based AFFFs are not made with PFOA-based products (23). The FFFC proposed that telomer-based firefighting foam products no longer be considered as part of the ECA process. The

USEPA Telomer Technical Workgroup agreed, but the USEPA noted that it is interested in the newer C₆ fluorinated surfactants and the stockpiles of older fluorochemical firefighting foams (24).

3.0 FIREFIGHTING FOAM

Delta researched information available at the websites for various manufacturers of firefighting foams; websites for various firefighting organizations and entities, including the Fire Fighting Foam Coalition, the Minnesota State Fire Marshal, the National Fire Protection Association, the U.S. Fire Administration, and the branches of the U.S. military; and, multiple periodicals at the Fire/EMS/Safety Center Library of the Minnesota State Colleges and Universities (MNSCU).

With the introduction and proliferation of the automobile and other petroleum-powered engine came the need for something other than plain water to fight petroleum (and other hydrocarbons) fires. Thus began the development and refinement of firefighting foams.

All types of firefighting foams are made to do four things: form a self-sealing layer of foam over the surface of a burning liquid; insulate the liquid from the heat generated by the fire; suppress vapors associated with the fire; and, deprive the fire and liquid of oxygen (25).

3.1 Development and Types of Firefighting Foams

Prior to the 1960s, firefighters utilized detergent- or protein-based foams for hydrocarbon fuel fires. Early detergent foams were simple solutions of soap and water that were aerated to form a foamy layer that would float on the surface of the burning hydrocarbon, thus depriving the fire of oxygen (25). Later, protein-based foam concentrates were developed as a cheaper alternative to detergent foams. Protein-based foams have a base of organic protein matter such as animal carcasses, hoof or horn meal or other animal parts, combined with other chemicals added to stabilize the concentrate, inhibit the potential for corrosion, and lower their freezing temperature (26). Early protein-based foam concentrates tended to smell rancid, were slimy, corroded metal containers, and had a short shelf life (26). Protein foams produce a stable, homogenous foam layer with good heat resistance and vapor suppression, but have a slow fire "knockdown" time (27). Detergent-based foam concentrates are synthetic "industrial strength" soap concentrates that generate large quantities of foam (26). Protein- and detergent-based foams are intended for use on hydrocarbon fuel fires, or Class B fires, only.

In 1965, fluoroprotein (FP) foam concentrates were developed in an effort to improve existing protein foams (28). Protein foams developed in the mid-1930s offered better heat resistance than detergent foams, but they were stiff and slower in fire knockdown than detergent foams and did not flow well across a burning hydrocarbon fuel surface (28). Fluorochemical surfactants were later added to protein foam concentrates to create a foam that flowed better across the burning surface and shortened fire knockdown time (28)(26).

In the early 1960s the U.S. Naval Research Laboratory conducted research on fire suppression that led to the development of aqueous film-forming foam (AFFF) with fluorochemical-based surfactant for use on hydrocarbon fuel fires (29). 3M, in conjunction with the U.S. Navy, began production of AFFF in 1962 (30)(31). The fluorochemical-based surfactant in AFFF reduces the surface tension of water and forms an aqueous film on the surface of the hydrocarbon fuel that (1) suppresses vapors, (2) deprives the fuel surface of oxygen, and (3) prevents evaporation and subsequent re-ignition of the fuel (28)(29). Further, holes made in the aqueous film by falling debris are quickly resealed by the fluorochemical-based surfactant (29). The fluorochemistry used in AFFF best facilitates the reduction of the surface tension of water and the formation of a uniform film on the surface of the hydrocarbon fuel. While 3M was the original manufacturer of fluorochemical-based AFFF using the ECF process, other manufacturers later used telomer-based fluorochemical surfactants in their AFFF.

Fluoroprotein polar foam was introduced in the mid-1960s, which, in addition to hydrocarbon fuel fires, was also effective on polar solvents such as alcohol, acetone, methyl ethyl ketone, thinners and other flammable liquids (28). The polar foams do everything non-polar foams do, but also work on water-soluble solvents (28). Water soluble polar solvents will dissolve the water in regular non-polar foams (28). In the mid-1970s an aqueous film-forming polar foam was developed (28). These polar foams are referred to as alcohol-resistant (AR) foams.

In the early 1980s, film-forming fluoroprotein (FFFP) foam was introduced (28). FFFP is a protein- or soap-based foam that combines the superior heat resistance of an FP and the faster knockdown quality of an AFFF (28). FFFP foam is also available as FFFP-AR.

While Class B firefighting foams are used on Class B fires involving flammable or combustible fuels, Class A foams are for use on wildfires and other Class A combustibles such as wood and paper. The development of Class A foams came about in the 1980s because of work in the area of wildland fire control (32). Class A foam is made with a hydrocarbon-based surfactant that reduces the surface tension of water and allows more surface area of the water to contact the combustible surface. And, because it is hydrocarbon-based, the Class A surfactant also has an affinity for carbon and causes the foam/water solution to penetrate into the wood or other burning combustible with greater efficiency (32)(33). Thus Class A foams are said to act as a "wetting agent." Class A foam concentrates are synthetic, detergent-based foams with a *hydrocarbon-based surfactant* (32). This indicates that Class A foam concentrates are not made with perfluorocarbon-based surfactants and thus would not contain PFCs. Mr. Mitch Hubert with Tyco Fire & Security, maker of Ansul firefighting foams, is not aware of any Class A foams that are made with PFCs or other fluorinated compounds. Mr. Tom Cortina of the Fire Fighting Foam Coalition and Mr. Dominic Colletti, co-author of *The Rural Firefighting Handbook* and other firefighting publications also indicated in e-mail correspondence that they believe Class A foams do not contain fluorinated compounds.

Training foams are similar to Class A and Class B foams but are made specifically for fire training exercises and do not contain chemical components for firefighting performance. Training foams are available from most manufacturers and are generally less expensive because they do not contain (costly) fluorinated surfactant components (7). Thus training foams are not made with PFCs. A survey of municipal fire departments in Minnesota (see **Section 4.0**) found that many departments train with dishwashing soap as the concentrate added to water.

Class B foam concentrations are typically sold in 1%, 3% or 6% solutions, while Class A foam solutions range from 0.1% to 1% (32). For example, use of a 3% foam concentrate means that 3 gallons of concentrate will be mixed with 97 gallons of water prior to or during discharge (26). Firefighting foams are sold as a concentrate and are typically available in 5-gallon pails, 55-gallon drums, and 275-gallon totes. The concentrate is mixed with water, either manually or through an automated system, to form a foam that is applied to blanket a fire or flammable liquid.

3.2 Application of Firefighting Foams

All types of foam concentrates are combined with water at various ratios using an in-line eductor or other proportioning/mixing device (25). The foam concentrate/water solution can then be fed through one of two types of discharge devices, either a nozzle-aspirated foam system (NAFS) or a compressed air foam system (CAFS) (25)(34). A nozzle-aspirated system draws atmospheric air into the solution at the nozzle end of the hose, while a compressed air system forces compressed air (or nitrogen or other inert gas) into the foam solution (25)(34). Both systems produce a finished foam that is a combination of water, air and foam concentrate. Varying the ratios of these three ingredients affects the physical structure of the finished foam product. More air in the mix will produce a stiffer foam, while less air produces a more liquid, heavier foam. Generally, a compressed air system produces a finished foam with a much higher expansion ratio (25)(34).

Fire engines can be equipped with an on-board reservoir to carry water and foam. Pumper and tanker trucks typically carry 500 to 1,500 gallons of water and 20 to 25 gallons of foam. Foams are also carried on fire engines in 5-gallon containers.

Finished foams are classified as either low-, medium- or high-expansion foams (28)(32). The expansion rates refer to the ability of the foam solution to hold air. Low expansion foams expand at a ratio up to 20:1, medium expansion foams expand from 20:1 to 200:1, and high expansion foam ratios are more than 200:1 (28)(32). For example, a low expansion foam of 10:1 ratio means that 100 gallons of foam solution expands 10 times to produce 1,000 gallons of finished foam (32). Most Class B foams are low to medium expansion foams. High-expansion foams are usually Class A foams.

3.3 Users of Firefighting Foams

The military is the largest user of firefighting foams in the U.S., comprising 75% of the market (7). From the early 1960s until 1982, 3M was the sole supplier of AFFF to the U.S. military (5). From 1983 to 1988 both 3M and Ansul Inc. supplied the military with AFFF (5). 3M was again the sole supplier to the military from 1989 to 2001, and Kidde National Foam has been the military supplier of AFFF since 2002 (5). The military specifications for firefighting foams have largely driven the performance requirements and thus technological advancements in foams (7). A 2000 report indicated municipal fire departments make up approximately 13% of the firefighting foam market, and hydrocarbon-processors (ie. refineries) comprise 5% of the market (7). Other users of firefighting foam include aviation, non-military ships and off-shore drilling platforms, and other petro-chemical manufacturers.

A 2004 study of inventories of AFFF firefighting foams in the U.S. estimated the following quantities of AFFF on-hand for the following user categories, from most to least (35):

- 2,738,375 - 3,032,575 gallons for the U.S. Military and other federal agencies
- 1,330,065 - 1,937,319 gallons for civil aviation, including airport fire departments
- 2,725,000 - 5,075,000 gallons for oil refiners and other petro-chemical industry
- 884,000 - 1,836,000 gallons for municipal fire departments
- 97,500 - 202,500 gallons for miscellaneous applications
- 60,000 - 100,000 gallons for ships and off-shore drilling

3.4 PFCs in Firefighting Foams

As previously described, Class B firefighting foams made by 3M prior to 2002 using the ECF process generated PFOS and PFOA as a breakdown product. Class B foams made by 3M using the ECF process are the only firefighting foams that degrade to PFOS (9). As discussed in **Section 3.5**, Class A foam was made for 3M by an outside company (Coverfoam) and was not made with PFCs. And, 3M's training foam was not made with PFCs.

As mentioned in **Section 2.2.2**, Mr. Tom Cortina of the FFFC indicated that telomer-based AFFF fluorosurfactant agents are 75% to 80% C6 in content, with the rest C8 or higher homologues. Studies performed in part by the University of Oregon into PFCs in groundwater at military fire training sites found that the primary breakdown product of telomer-based AFFFs was 6:2 fluorotelomer sulfonate (6:2 FtS), though 4:2 and 8:2 FtS were also detected in groundwater (15). As discussed in **Section 2.2.2**, the research also indicated that AFFF concentrate contains only a small amount of fluorotelomer sulfonates, with fluoroalkylthioamido sulfonates being the main anionic fluorosurfactant in the mixture (15). Dr. Field and her colleagues hypothesize that fluoroalkylthioamido sulfonates may break down to 6:2 and 8:2 telomer sulfonates in the environment, and further research is also needed to determine if 8:2 telomer sulfonates break down to PFOA.

Thus, while Class B foams manufactured by 3M using the ECF process are known to contain or generate PFOS and PFOA, further research is needed to determine if other Class B firefighting foams produced by a telomerization process generate PFOA.

As discussed in **Section 3.1**, Class A foams and training foams are not made with fluorocarbon surfactants and thus do not contain PFCs.

3.5 Manufacturers of Firefighting Foam

Internet websites for the various U.S. manufacturers of firefighting foams were accessed in order to obtain information regarding who the manufacturers are, and what types and brands of foam are available. A list of U.S. manufacturers of firefighting foams and their brands of foam are listed in **Table 1, U.S. Manufacturers of Firefighting Foams**.

U.S. manufacturers of firefighting foams were surveyed regarding the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams made now and in the past. Copies of the survey questionnaire and cover letters with the manufacturers' addresses and contact information are included in **Appendix A**. Survey questionnaires were sent to the U.S. manufacturers of firefighting foams listed below.

- 3M
- Buckeye Fire Equipment
- Chemguard
- Dupont
- Kidde Fire Fighting (National Foam, Angus and Feecon are subsidiaries of Kidde Fire Fighting)
- ICL Performance Products, maker of Phos-Chek
- Summit Environmental, maker of FirePower 911 with FlameOut
- Tyco Fire and Security, maker of Ansul foams
- U.S. Foam Technologies
- Williams Fire & Hazard Control
- Verde Environmental
- Fire-Trol Holdings LLC
- Dynax

A questionnaire was not sent to Hazard Control Technologies as Delta's initial research did not identify this company as a firefighting foam manufacturer. Hazard Control Technologies was found when use of their F-500 foam was indicated on returned questionnaires from municipal fire departments (see **Section 4.0**).

Questionnaires were completed and returned to Delta by 3M, Dynax and Williams Fire & Hazard Control. Copies of the completed questionnaires are included in **Appendix A**. The manufacturers provided the following information:

- Mr. Michael Santoro, Director of Regulatory Affairs with 3M, indicated that 3M produced firefighting foams using PFCs made with the ECF process only, and did not use a telomerization process, and that 3M discontinued the manufacture and development of firefighting foams. 3M foams are not known to contain or degrade to PFBA. The following foams made by 3M were made with PFCs and contain or degrade to PFOS:
 - Lightwater™ AFFF military spec foam produced from 1960 through 2002;
 - Lightwater™ AFFF commercial foam produced from 1965 through 2002;
 - Lightwater™ ATC, an AR-AFFF made from approximately 1980 through 2000
- 3M also manufactured a Class A foam that was not made with PFCs, and a 3M-brand training foam made for 3M by Coverfoam was not made with PFCs.
- Dr. Eduard Kleiner, President, Dynax Corporation, indicated that Dynax, founded in 1991, is a producer of fluorosurfactants and fluorochemical foam stabilizers, but does not produce firefighting foam agents. Dynax fluorosurfactants/foam stabilizers are used by agent manufacturers for the production of AFFF, AR-AFFF, FFFP, AR-FFFP, and FP foams. Dynax's fluorosurfactants/foam stabilizers are only made using a telomerization process, and are not derived from nor degrade to PFOS, PFOA or PFBA.
 - Williams Fire & Hazard Control indicated that they do not manufacture firefighting foam. Information from the Williams Fire & Hazard Control website (www.williamsfire.com) indicates they make PKW™, a specialized siliconized potassium bicarbonate-based dry chemical used to extinguish Class B liquid fires.
 - The survey sent to Summit Environmental in Dallas, Texas was returned to Delta by the U.S. Post Office and stamped "forwarding order expired." It appears that Summit Environmental sold their FirePower 911 low density foam to a Norwegian company in 2001.

Brand names and other information, including material safety data sheets (MSDSs) in some cases, for all the U.S. firefighting foam manufacturers are available on the internet. Review of MSDSs for various brands of firefighting foam did not reveal whether or not foams were made with PFCs, and information available from the websites of the foam manufacturers did not provide additional information regarding the presence of PFCs in their foams.

4.0 USE OF FIREFIGHTING FOAMS IN MINNESOTA

In order to gain an understanding of the organizations in Minnesota that utilize firefighting foam, what types and quantity of foam are being used, and where the foams are being used in training exercises, Delta searched the websites of firefighting organizations, interviewed individuals commonly known to be involved in or associated with firefighting in Minnesota, and surveyed the users of firefighting foams in Minnesota regarding their foam use.

The website for the Minnesota Fire Marshal (www.fire.state.mn.us) has a list of Minnesota Fire Departments as of July 2006 available in an Excel spreadsheet format, and a State map showing the locations of all fire fighting service areas.

The Minnesota Fire Service News website (www.minnesotafireservice.com) includes a listing of firefighting training schools in Minnesota, along with school contacts, mailing addresses, and phone numbers. This site also provided links to municipal fire departments in Minnesota that have their own websites.

The Minnesota Incident Command System website (www.mnics.org) provided general information about partnerships between State and Federal firefighting organizations.

4.1 Interviews with Minnesota Firefighting Organizations

In order to gain a better understanding of the organizations that utilize firefighting foam across the State, Delta interviewed via telephone and/or e-mail several individuals commonly known to be involved in or associated with firefighting in Minnesota.

Mr. Jerry Rosendahl, State Fire Marshal, (651)201-7201 was contacted via telephone on April 4, 2008. Mr. Rosendahl indicated that a directory of all municipal fire departments is included on the State Fire Marshal's website at www.fire.state.mn.us. Mr. Rosendahl indicated that the Minnesota Department of Natural Resources (MN DNR) trains fire fighters at the Minnesota Interagency Fire Center in Grand Rapids. He also related that the Flint Hills and Marathon refineries had their own fire departments, and suggested that Delta contact Don Beckering at the Minnesota State Colleges and Universities (MNSCU) system.

Mr. Don Beckering, State Director of Fire Training, MNSCU, (651)649-5411 was interviewed on April 4, 2008, regarding his knowledge of firefighting foams and departments in the State using foams. Mr. Beckering indicated that the MNSCU system switched to (biodegradable) soap surfactant instead of regular firefighting foam approximately three to four years ago. Prior to that they used AFFF or AR-AFFF made by 3M. Mr. Beckering was aware that, in addition to municipal fire departments, the following entities use or may use firefighting foam: the airports at Rochester, St. Cloud, St. Paul, Flying Cloud, Anoka, Duluth, and the new and old facilities at Minneapolis/St. Paul International; the National Guard base at Camp Ripley; the Marathon oil refinery in St. Paul Park; and, the Pine Bend refinery in Rosemount. MNSCU offers firefighting training at approximately 20 of their schools.

Mr. Robert Berg, Home Security Planner, Minnesota Department of Homeland Security and Emergency Management (MN HSEM), (651)201-7444 was contacted via telephone on April 28, 2008. Mr. Berg indicated that the MN HSEM does not do any type of firefighting. Mr. Berg has been involved in fire

training since 1970 and provided other information regarding firefighting training organizations in Minnesota. Mr. Berg estimated that approximately 30% of municipal fire departments across the state use firefighting foam. He related that MNSCU and the network of associated technical colleges train with firefighting foam and indicated that a private contractor, Dale Mafluga with F.I.R.E. Inc. also conducts firefighting training in the State. Mr. Berg was not aware of any training with firefighting foam conducted at the former Twin Cities Arsenal located in Shoreview.

Mr. Dale Mafluga, F.I.R.E. Inc., (612)799-4100 was contacted via telephone on April 29, 2008, regarding their training. Mr. Mafluga indicated that they do not conduct training with firefighting foam. Mr. Mafluga indicated that the Flint Hills Refinery probably has more foam than any other department in the State, and he believes they reclaim their spent foam. Mr. Mafluga provided contact information for the fire departments at the Ashland Refinery and the Flint Hills Refinery.

Ms. Barb Meyer, Forestry Program Coordinator, MN DNR, (651)437-0643 was contacted via telephone on April 29, 2008. Ms. Meyer indicated that the MN DNR is partnered with several other State agencies in the Minnesota Incident Command System (MNICS) through which common fire training is provided. The Northeast Fire Cache located in Grand Rapids is jointly operated by the MN DNR and the U.S. Department of Agricultural Forest Service where firefighting equipment is stocked. Ms. Meyer explained that fire training is generally conducted at other (MNSCU) facilities, including the ones in Duluth and Grand Rapids. Mr. Meyer recalled one foam demonstration conducted some time ago in a parking lot at Giants Ridge resort in Biwabik, but indicated that such demonstrations were not commonplace.

Mr. Tom Staydohar, MN DNR, MNICS, Grand Rapids, (tom.staydohar@dnr.state.mn.us) responded to Delta's request for information on April 22, 2008, via telephone. Mr. Staydohar works in the MNICS warehouse in Grand Rapids. Mr. Staydohar indicated they only stock Class A foam, and that training with the foam is not conducted at the MNICS facility. He explained that training is conducted at other schools and local fire stations. Mr. Staydohar indicated that they go through approximately 2,500 to 3,000 gallons of Class A foam per year. Currently they stock Ansul Silv-ex Class A foam, and Fire Trol Class A foam was used in the past. He also recalled that they have used Monsanto PhosCheck D881 for air release over woodland or grassland fire. Mr. Staydohar said that they have not used 3M firefighting foam, that the 3M foam did not pass their laboratory tests performed to ensure the foam meets the Forest Service specifications.

Ms. Mary Ann Wittkop, Airport Executive Secretary, Duluth International Airport, (mwittkop@duluthairport.com) responded to Delta's request for information on April 8, 2008 via email. Ms. Wittkop indicated that the Minnesota Air National Guard is responsible for fire and emergency services at the Duluth International Airport, and that the Fire Chief is Dave Dodge. Mr. Dodge can be contacted at david.dodge@mndulu.ang.af.mil or (218)788-7273.

St. Cloud Regional Airport, (320)255-7292, was contacted on June 6, 2008, regarding firefighting at the airport. It was indicated that the City of St. Cloud fire department is responsible for fire response at the airport. St. Cloud Deputy Fire Chief Dean Wrobbel, (320)650-3528, confirmed that the City of St. Cloud fire department responds to fires at the airport, and that a city fire station is located at the airport.

4.2 Survey Mailing to Minnesota Firefighting Organizations

The MPCA and Delta prepared a questionnaire and explanatory cover letter requesting information from users of firefighting foams across the State of Minnesota regarding their use of firefighting foams. The users of firefighting foam in Minnesota were surveyed regarding current and historical types and amounts of firefighting foam used in firefighting and fire training, the locations of the fire training areas, and the fate of the spent training foam. The survey questionnaire also requested information about total annual foam use, and fire departments were asked whether or not the department uses a CAFS with a built in tank on their engine. Questionnaires were mailed out on April 16, 2008 to the following potential foam users in Minnesota:

- 785 municipal fire departments;
- All of the airports with dedicated fire departments: Minneapolis-St. Paul International Airport (MSP); Rochester International Airport; and, the Duluth International Airport.
- The following 16 colleges with firefighter training programs: Itasca Community College in Grand Rapids; Alexandria Technical College; St. Cloud Technical College; Minnesota West Community College in Marshall; Ridgewater College in Willmar; South Central College in North Mankato; Riverland Community College in Austin; Pine Technical College in Pine City; Hennepin Technical Colleges in Plymouth and Eden Prairie; Northland Community Colleges in Thief River Falls and East Grand Forks; Central Lakes College in Brainerd; Minnesota State Community College in Moorhead; Mesabi Range Community College in Virginia; and, Lake Superior Technical College in Duluth. Southwest State University in Marshall, Minnesota indicated that they do not offer a firefighting training program and that their program is only a business administration program for fire chiefs and captains.
- 2 petroleum refineries; and,
- Camp Ripley in Little Falls.

Copies of cover letters and questionnaires sent to the municipal fire departments, the airport fire departments, the oil refinery fire departments, and the fire training schools are included in **Appendix B**. A list of the municipal fire departments, schools, and other fire departments and their addresses is also included in **Appendix B**. The letters requested that questionnaires be returned to Delta by May 9, 2008. By May 9, 2008, approximately 290 responses had been received. In order to maximize the return, a second questionnaire was sent on May 23, 2008, to approximately 525 municipal fire departments that had not responded to the initial request for information.

4.3 Minnesota Firefighting Organization Survey Results

Through June 13, 2008, Delta had received completed survey questionnaires from the following number of firefighting organizations:

- 433 of the 785 municipal fire departments in Minnesota;
- Airport fire departments at MSP, Rochester, and Duluth;
- 11 of the 16 colleges with firefighting programs;
- The Flint Hills Pine Bend Refinery in Rosemount and the Marathon Petroleum Refinery in St. Paul Park; and,
- Camp Ripley.

Survey results for each of these groups are discussed in **Sections 4.3.1** through **4.3.5**.

4.3.1 Survey Results - Municipal Fire Departments

Delta received a total of 433 completed questionnaires through June 13, 2008, from the 785 municipal fire departments that were surveyed, a response rate of 55%. Copies of the returned, completed questionnaires are included in **Appendix C**. Questionnaires received after June 13, 2008, were not included in this report. Municipal fire department questionnaire responses are summarized in **Table 2, *Municipal Fire Department Questionnaire Responses***. The following general findings and statistics were ascertained from the questionnaires:

- Of the 433 responding departments, 46 (or 10.6%) of the responding fire departments do not use firefighting foam at all. Fire departments that indicated they do not use firefighting foams are listed in **Table 3, *Municipal Fire Department with No Firefighting Foam Use***.
- Of the 433 questionnaires, 8 were unsigned and incomplete and were not included in any of the findings or statistics.
- Of the remaining 379 responding fire departments that use foam, 201 departments use only Class A or a combination of Class A foam and training foam, with no use of Class B foams.
- Of the remaining 178 responding fire departments that utilize Class B foams, 82 of the departments do not train with Class B foam. That leaves 96 of the responding fire departments that train, or potentially train, with Class B foams. Select questionnaire responses from these 96 responding fire departments that train, or potentially train, with Class B foams are summarized in **Table 4, *Municipal Fire Departments That Train With Class B Foams***.

Of the 379 responding departments that use foam, the types of firefighting foams listed below are reportedly used. Please note that some departments use more than one type of foam, and some departments use more than one brand of each type of foam (ie. one department may use Ansul Class A foam and 3M Class A foam).

- 357 departments use or have used Class A foam
- 92 departments use or have used Class B AR-AFF
- 73 departments use or have used Class B AFFF
- 21 departments use or have used training foam
- 7 departments use or have used Class A-B Hi-Expansion foam

- 4 departments use or have used Class B protein foam
- 1 department uses or has used Class B FFFP
- 1 department uses or has used Class B AR-FFFP
- 20 departments use “other” or unspecified types of foam

The brands of foams listed on the survey questionnaires were lumped into the following categories, based on the number of responses:

- (1) 3M brand foam
- (2) Ansul Silv-ex (Class A)
- (3) Ansulite (Class B AFFF or AR-AFFF)
- (4) Other or unspecified Ansul foam product
- (5) Angus Forexpan S (Class A)
- (6) Angus Hi-Combat (Class A or Class B AR-FFFP)
- (7) Other or unspecified Angus foam product
- (8) National Foam product
- (9) Chemguard foam product
- (10) Hazard Control Technology (HCT) F-500 A-B
- (11) Pyrocom Aqua Stiks (Class A Turbo Stik and Class B AFFF Eco Stik)
- (12) Other or unspecified foam product

The brands of foams used by the departments cited in the questionnaires, grouped by foam type, are listed in the *Foams Used by Responding Municipal Fire Departments* table below.

FOAMS USED BY RESPONDING MUNICIPAL FIRE DEPARTMENTS	
FOAM TYPE AND BRAND	# OF RESPONSES
<u>Class A</u>	
3M foam product	8
Ansul Silv-ex	208
Other or unspecified Ansul foam product	10
Angus ForexpanS	6
Angus Hi-Combat	25
Other or unspecified Angus foam product	44
National Foam product	2
Chemguard foam product	17
Pyrocom Aqua Stiks	8
Other or unspecified Class A foam	29
<u>Class B AR-AFF</u>	

FOAMS USED BY RESPONDING MUNICIPAL FIRE DEPARTMENTS	
FOAM TYPE AND BRAND	# OF RESPONSES
3M foam product	24
Ansulite	27
Other or unspecified Ansul foam product	5
Angus Hi-Combat	1
Other or unspecified Angus foam product	21
National Foam product	4
Chemguard foam product	6
Other or unspecified Class AF-AFFF foam	4
<u>CLASS B AFFF</u>	
3M foam product	33
Ansulite	6
Other or unspecified Ansul foam product	2
Other or unspecified Angus foam product	10
National Foam product	2
Chemguard foam product	4
Pyrocom Aqua Stiks	4
Other or unspecified Class AF-AFFF foam	12
<u>Other Foam</u>	
HTC F-500 A/B Foam	12

*Ansul Silv-ex is a Class A foam. Questionnaire responses that listed Silv-ex as a Class B foam were counted as a Class A foam, unless Silv-ex was already included as a Class A foam on the questionnaire, in which case the second Silv-ex foam was counted as an unspecified product.

Of the 96 responding municipal fire departments that train, or potentially train, with Class B foams (see **Table 4**), they train with foam with the following frequency:

- 2 train monthly
- 5 train quarterly
- 11 train semi-annually
- 44 train annually
- 21 train bi-annually
- 12 train occasionally
- 1 department that trains off-site did not specify

Of the 96 responding municipal fire departments that train, or potentially train, with Class B foams, the following foam amounts per training event were reported:

- 62 of the departments use less than 5 gallons
- 15 departments use 5 gallons
- 17 departments use 5 to 10 gallons
- 1 department uses more than 10 gallons: St. Cloud uses 20 gallons of Class B AR-AFF Chemguard foam and 40 gallons of Chemguard training foam per event.
- 1 department that trains off-site did not specify

Of the 96 responding departments that use, or potentially use, Class B foam in training, spent training foam goes in part or in full to one or more of the following locations:

- 78 of the departments' spent foam goes, fully or in part, to the ground
- 25 departments' spent foam goes fully or in part to a storm sewer
- 2 departments (Apple Valley and Crosslake) send some portion of the spent foam to a sanitary sewer
- 1 department's spent foam, the North Metro Fire Training Center in Fridley, goes to an on-site retention pond.
- 1 department did not specify

4.3.2 Survey Results - Airport Fire Departments

Copies of the returned, completed questionnaires from all of the airports surveyed are included in **Appendix D**. Airport fire department questionnaire responses are included in **Table 5, Questionnaire Responses from Airport and Refinery Fire Departments and Training Schools**.

Ms. Toni Howell, Manager of Environmental Affairs with the Metropolitan Airports Commission, (612-726-8100) indicated that the MSP airport is the only airport operated by MAC that has its own fire department. Other MAC airports are served by the following municipal fire departments: the downtown St. Paul Airport (Holmen Field) is served by the City of St. Paul; Airlake is served by the City of Lakeville; Anoka County is served by the Blaine-Spring Lake Park-Mounds View fire department; Flying Cloud is served by Eden Prairie; Crystal Airport is serviced by the West Metro Fire District; and, the Lake Elmo Airport is serviced by the Lake Elmo fire department. In addition to completing the survey questionnaire, Ms. Howell provided the following pertinent information:

- Training with firefighting foam takes place on concrete-paved areas with covered or plugged drains on airport property, including the Humphrey Terminal remote ramp and/or de-icing pads.
- Spent foam is removed from the plugged concrete areas by a licensed contractor who pumps out the spent foam and transports it off site for discharge to the sanitary sewer system.
- The MSP fire department utilized firefighting foam manufactured by 3M through approximately 2000, when they switched to Ansul 3% AFFF. Currently they use approximately 200 to 250 gallons of Ansul 3% AFFF annually for training and fire response.

The Rochester Airport Fire Department survey was completed by Assistant Airport Manager Kurt Claussen. Mr. Claussen indicated that the Federal Aviation Administration (FAA) requires annual training and testing of fire fighters and fire equipment. The fire fighters are trained off-site at a facility in Duluth. FAA inspectors randomly choose sites on the airport property for equipment testing, but Mr. Claussen stated that the sites where foam is discharged are typically the runways. The foam equipment tests require a short burst of foam to show that the operator and the fire truck are functioning properly. Less than 5 gallons of Chemguard foam is used annually for training.

The Duluth International Airport fire department survey was completed by Senior Airfield Firefighter John Farnham of the Minnesota Air National Guard 148th. Mr. Farnham indicated that no training with foam is currently taking place at the airport, and that there is an ongoing site investigation for PFCs at the previous fire training site. Mr. Farnham related that Jane Mosel of the MPCA is the point of contact for that investigation. Up to 100 gallons annually of firefighting foams made by 3M and Chemguard are used at the Duluth International Airport for firefighting.

4.3.3 Survey Results - Firefighting Training Schools

Survey questionnaires were returned by 11 of the 16 firefighting training schools, all of which are in the MNSCU system. Copies of the returned, completed questionnaires from the training schools are included in **Appendix E**. Airport fire department questionnaire responses are included in **Table 5**.

The following schools reportedly train with Class A and/or training foams only:

- Northland College in Thief River Falls;
- Mesabi Range College in Virginia;
- Pine Technical College in Pine City;
- Ridgewater College in Willmar;
- Riverland Community College in Austin; and,
- Hennepin Technical College in Plymouth; training is conducted at the Hennepin Technical College in Plymouth. The Hennepin Technical College in Plymouth did not respond to the survey.

One school, the Itasca Community College in Grand Rapids, indicated that they do not train with foam.

The Lake Superior College has their own fire training center in Duluth, and other fire departments use this training center. Academic supervisor David Sarazin indicated that they use less than 5 gallons of Class A foam annually for training, and that Trainol training foam is used for Class B fire training. Outside departments using the training center use Trainol training foam provided by the school. Spent foam is directed to an on-site treatment facility. Mr. Sarazin indicated on the questionnaire that they historically used AFFF, AR-AFFF, and protein foam manufactured by 3M.

The South Central College in North Mankato trains at the college and at various fire departments. They indicated that they train monthly using 5 gallons of Class A Silv-ex foam. In addition, other fire departments may train at the college and bring in their own foam, discharging 5 to 25 gallons annually of their own foam. It was not clear if all of the college's foam and other departments' foam is used in training at the college or at the fire department locations, or a combination of both. For the purpose of the site ranking, it was assumed that all of the foam is used at the college, and that 3M foam may be brought in by the other fire departments.

4.3.4 Survey Results - Petroleum Refineries

Copies of the returned, completed questionnaires from the Minnesota petroleum refineries are included in **Appendix F**. Refinery questionnaire responses are included in **Table 5**.

The survey questionnaire from the Marathon petroleum refinery in St. Paul Park was completed by Fire Chief Steve Crisp. Training with foam occurs semi-annually at the refinery fire training grounds, and approximately 50 to 100 gallons of Ansul ThunderStorm foam is used per training event. Other municipal departments train at the refinery training grounds, but they do not bring in their own foam; they use the foam provided by the Marathon refinery fire department. Mr. Crisp indicated that foam is only used occasionally in training with other departments to demonstrate foam capabilities. Spent training foam is collected into an on-site septic system. Fire Chief Crisp indicated that Marathon previously used 3M firefighting foam but switched to ThunderStorm in approximately 2000. Total annual foam use for fire response varies: a January 2008 fire required 2,000 gallons of foam to extinguish; and, a tank fire in 2004 needed 6,500 gallons of foam to put it out.

Deputy Fire Chief Pete Herpst with the Flint Hills Resources' Pine Bend Refinery in Rosemount completed the survey questionnaire. Training with foam takes place approximately 20 to 25 times during the training season from April through November. Approximately 5 to 10 gallons of Ansul ThunderStorm foam is used per training event, with an estimated 300 gallons used annually for training. Other municipal departments train at the refinery training grounds, but they do not bring in their own foam. Spent training foam is captured on a concrete pad, collected into a lined holding area, and routed to the on-site waste water treatment plant. Fire Chief Herpst indicated that they used to use 3M foam for training and currently have a stockpile of approximately 50,000 gallons of 3M foam.

Since the former Conoco-Phillips oil refinery in Wrenshall, Minnesota ceased operation in the early 1980s, a questionnaire could not be sent to the refinery. The Wrenshall Volunteer Fire Department Fire Chief Nick Shanda was interviewed via telephone on June 17, 2008, and indicated that he trained at the Wrenshall refinery when it was in operation. Mr. Shanda indicated that the refinery had their own fire truck and firefighting foam, and had personnel trained to fight fires, but the Wrenshall Volunteer Fire Department responded to any fire calls.

4.3.5 Survey Results - Camp Ripley

The Camp Ripley survey questionnaire was completed by Tom Rothleutner, Roads & Grounds Supervisor, Army National Guard, and returned to Delta by Pat Boone, Fire and Emergency Services Coordinator for Camp Ripley. Mr. Boone indicated that his position at Camp Ripley had been created approximately one year ago and he is not familiar with historical firefighting practices at Camp Ripley. Mr. Rothleutner indicated that no firefighting training with foam is currently being conducted at Camp Ripley, and estimated that approximately 50 gallons of Class A Fire-Trol Firefoam 103B is being used annually for fire response.

A copy of the questionnaire returned by Camp Ripley is included at the end of **Appendix F**.

5.0 RANKING CRITERIA FOR FIREFIGHTING FOAM TRAINING SITES

The training sites where Class B firefighting foam is used were ranked in order to identify those with the highest potential to create PFC impacts to the soil, groundwater and surface waters. The sites were ranked according to the criteria listed below in **Section 5.1**. Delta assigned a relative numerical score for each criteria that was meant to reflect the relative importance of each parameter with respect to its potential to release PFCs to the environment and the sensitivity of the environmental receptors.

5.1 RANKING CRITERIA

The following criteria were considered in ranking training sites on their potential to have PFC impacts:

1. **Type of Foam.** Due to the content of PFOS and PFOA in firefighting foams manufactured by 3M, training sites where 3M foams were currently or formerly used in training are more likely to exhibit PFC impacts in the environment than sites where other brand Class B foams are/were used. Some fire departments indicated that 3M foams are currently or were historically used in training, and some simply indicated that 3M foams are or were used by the department without commenting specifically on their use in training. Some fire departments did not indicate what brand of foam is or was used. For the scoring purposes, departments that indicated the use of 3M foams without specific reference to their use in training, and departments that did not specify a foam brand, were assumed to have used the 3M foam in training.

Sites where 3M foams were currently or formerly used in training were assigned a score of 8.

2. **Annual Foam Usage for Training.** The annual amount of Class B foam used in training was inferred from the departments' response to their frequency of training and the amount of foam used per training event.

Sites that use 5 gallons or less of Class B foam annually for training were assigned a score of 2.

Sites that use 5 to 10 gallons of Class B foam annually for training were assigned a score of 4.

Sites that use more than 10 gallons of Class B foam annually for training were assigned a score of 6.

3. Nearby Surface Water. Training site locations were mapped using Mapquest (www.mapquest.com) and the Minnesota Department of Health's County Well Index (CWI) on-line mapping program (www.health.state.mn.us/divs/eh/cwi). The topographic map option on the CWI was used to identify nearby surface waters.

Sites with surface waters located within 1/4 mile were assigned a score of 3.

Sites with surface waters located between 1/4 and 1 mile away were assigned a score of 1.

Sites with no surface waters located within 1 mile were assigned a score of 0.

4. Nearby Wetlands. Training site locations were mapped using the National Wetlands Inventory mapping program available at the National Fish & Wildlife Service's website (www.nwi.fws.gov).

Sites with wetlands located within 1/4 mile were assigned a score of 3.

Sites with wetlands located between 1/4 and 1 mile away were assigned a score of 1.

Sites with no wetlands located within 1 mile were assigned a score of 0.

5. Karst Areas. Training site locations were compared to a map of karst areas in Minnesota prepared by E. Calvin Alexander of the University of Minnesota. The map color codes the following karst areas in southeastern Minnesota: (1) active karst areas that are underlain by carbonate bedrock with less than 50 feet of sediment cover, (2) transition karst areas that are underlain by carbonate bedrock with 50 to 100 feet of sediment cover, and (3) covered karst areas that are underlain by carbonate bedrock with more than 100 feet of sediment cover. The map is available at www.pca.state.mn.us/water/groundwater/karst.html.

Sites located in active karst areas were assigned a score of 5.

Sites located in transition karst areas were assigned a score of 4.

Sites located in covered karst areas were assigned a score of 2.

Sites not located in karst areas were assigned a score of 0.

6. Nearby Water Wells. Training site locations were mapped using the MDH County Well Index (CWI) program available at (www.health.state.mn.us/divs/eh/cwi). The CWI mapping program displays well locations for wells that are registered with the MDH. Delta understands that not all water wells in the State are registered with the MDH, nor are all wells registered with the MDH mapped on the CWI. However, the CWI is a readily available tool for providing a cursory search of water wells in the areas of the training sites, and the use of the CWI to map wells is not intended to be an exhaustive well survey.

Sites with water wells located within 1/4 mile were assigned a score of 3.

Sites with water wells located between 1/4 and 1 away were assigned a score of 1.

Sites with water wells located within 1 mile were assigned a score of 0.

7. Wellhead Protection Areas. The option to display State Wellhead Protection Areas on the CWI was used to identify Wellhead Protection Areas relative to the training site locations. Wellhead Protection Areas are areas that contribute water to a public water supply well where potential contaminant sources are managed to prevent contamination of a public water supply well.

Sites located within or adjacent to a Wellhead Protection Area were assigned a score of 5.

Sites located within 1/4 mile of a Wellhead Protection Area were assigned a score of 4.

Sites located with a Wellhead Protection Area located between 1/4 and 1 mile distant were assigned a score of 2.

Sites not located within 1 mile of a Wellhead Protection Area were assigned a score of 0.

Since the vast majority of spent training foams are released to the ground or go to a storm sewer, the final destination of the spent foam was not considered in ranking the training sites.

5.2 NON-RANKED TRAINING SITES

Municipal fire departments that indicated they use Class A foam, training foam, or dishwashing soap for training were not ranked. Municipal fire departments that indicated they only trained one time with foam and used less than five gallons of foam during that training were not ranked.

Fire departments that use firefighting foam but do not use foam in firefighting training were not ranked, as the use of firefighting foams in fire response calls was beyond the scope of this project.

Training sites where Class B foams are used, or potentially used, in training were located using Mapquest (www.mapquest.com). For sites that did not include a valid, mappable address, Delta attempted to pinpoint the site by searching other websites such as city municipal websites, local maps available on-line, and fire department websites. Some fire departments were contacted, or attempts were made to contact, via telephone or e-mail to obtain more specific training site location information. Some training sites were not mappable based on the information provided by the fire departments.

Some fire departments did not indicate a training site and thus could not be ranked.

Some fire departments train with foam only during live fires or at various unspecified locations; these sites could not be ranked.

6.0 TRAINING SITE RANKING RESULTS

A total of 70 training sites were ranked, including 62 municipal fire department training locations, 3 airport fire departments, 2 firefighting training schools, and 3 petroleum refineries. Rankings for the fire department and school training sites are presented in the following sections.

6.1 RANKING RESULTS - MUNICIPAL FIRE DEPARTMENTS

Ranking criteria and results for the municipal fire departments that train with, or potentially train with, Class B foams are included in **Table 4**.

Of the 96 departments that use, or potentially use, Class B foam in training:

- 16 indicated the use of multiple or various training locations and were not ranked since there is no one dedicated training site;
- 11 departments did not specify a training location and could not be ranked;
- 4 of the training sites indicated by the departments were not mappable and could not be ranked; and,
- 3 of the departments train off-site at a training school or refinery training facility and were not ranked.

For each of the 62 mappable municipal fire department training sites where Class B foams potentially are or were used in training, individual site profiles have been prepared. The site profiles include the following:

- site summary sheet
- CWI topographic map showing the site location, Wellhead Protection Areas (where present) and well locations
- well records for nearby wells
- wetland map
- MPCA *What's In My Neighborhood* map showing nearby release sites

The individual site profiles are included in **Appendix G**, in alphabetic order.

Scores assigned to the municipal fire department training sites ranged from 5 to 28. Sites assigned a ranking of 5 have not trained with 3M foam, use less than 5 gallons of foam annually for training, were not located in Wellhead Protection Areas or karst areas, and no surface waters, wetlands or water wells were located within 1/4 mile of the sites. The highest scores of were assigned to sites generally located in a Wellhead Protection Area and/or a karst area, had wells, wetland and/or surface water located within 1/4-mile of the site, and 3M foam is used for training at the site.

6.2 RANKING RESULTS - AIRPORT FIRE DEPARTMENTS

Ranking criteria and results for the airport fire departments are included in **Table 5**. Site profiles for the airports are included in **Appendix G**.

The MSP airport was ranked 33 due their historic use of 3M foam, their use of up to 40 gallons of foam annually for training, their location in a Wellhead Protection Area and an active karst area, and nearby wetlands and water wells.

The Rochester airport was ranked 16 based on its location in an active karst area and the presence of nearby surface waters, wetlands and water wells.

Although the training with firefighting foam is no longer conducted at the Duluth airport, the use of foam for fire response is essentially similar to a training site as it could be considered a “point source” of the release of firefighting foam. Thus, the Duluth airport was ranked based on its use of firefighting foam in fire response. The Duluth airport was ranked 23 due to their current use of 3M foam, their use of up to 100 gallons of foam annually for fire response, and nearby surface waters, wetlands and water wells.

6.3 RANKING RESULTS - FIREFIGHTING TRAINING SCHOOLS

Ranking criteria and results for the firefighting training schools that use, or potentially use, Class B foams in training are included in **Table 5**. Site profiles for the ranked training schools are included in **Appendix G**.

The schools where training with Class B foam may occur were ranked as follows:

- Lake Superior College in Duluth was ranked 17 due to their historic use of 3M foam and nearby surface waters and wetlands.
- South Central College in North Mankato was ranked 19 due to the potential use of 3M foams, their annual use of up to 60 gallons of foam on site, and their location in a covered karst area.

6.4 RANKING RESULTS - PETROLEUM REFINERIES

Ranking criteria and results for the petroleum refinery fire departments are included in **Table 5**. Site profiles for the refineries are included in **Appendix G**.

The Marathon petroleum refinery training site in South St. Paul was ranked 30, and the Flint Hills Resources Pine Bend refinery training site in Rosemount was ranked 23. Foam manufactured by 3M were historically used at both sites, both training sites are used for training other municipal fire departments, and large quantities of foam (250 gallons at Marathon and 300 gallons at Pine Bend) are used annually in training. The Marathon refinery appears to be located in an active karst area, and the Flint Hills Resources Pine Bend refinery is located in a transition or covered karst area.

Although the destination of spent foam was not considered in ranking the sites, it should be considered that the spent foam at the Marathon and Pine Bend facilities is directed to an on-site septic system and processed through on-site wastewater treatment plants.

For the purpose of ranking the former Wrenshall refinery, it was assumed that more than 10 gallons of Class B foam made by 3M was used in the training exercises. The former Wrenshall refinery was ranked

25, based on these assumptions and nearby surface water, wetlands, water wells, and Wellhead Protection Area.

6.5 RANKING RESULTS - CAMP RIPLEY

Since no firefighting training with foam is currently taking place at Camp Ripley it was not ranked.

7.0 CONCLUSIONS

7.1 PFCs IN FIREFIGHTING FOAM

The surfactants in Class B firefighting foams formerly manufactured by 3M were made using the ECF process and are known to contain or break down to PFOS and PFOA. The 3M Class A foam surfactants were not manufactured using PFCs, and training foams sold under the 3M label manufactured by a third party likewise did not contain PFCs.

The surfactants in Class B firefighting foams manufactured by companies other than 3M were made using a telomerization process. The telomer-based foams cannot break down to PFOS. Further, telomer-based foam surfactants are predominantly comprised of six-carbon chains (C6) which apparently cannot degrade to PFOA, which is an eight-carbon (C8) molecule. However, a portion (approximately 25% or less) of the telomer-based foam surfactants can contain C8 or higher PFC molecules. Further research is needed to determine if telomer-based (Class B) foams can break down to PFOA.

Class A foams and training foams are not made with PFC-based surfactants and are therefore not a source of PFCs in the environment.

Survey of municipal fire departments across the State found that:

- 10.6% of the responding municipal fire departments do not use firefighting foam at all.
- Of the responding municipal fire departments that utilize firefighting foams, 51% use only Class A foams, with no use of Class B foams.
- Of the responding municipal fire departments that utilize Class B firefighting foams, 46% do not train with Class B foam.
- Both of the active oil refineries in the State historically used large quantities (250 to 300 gallons) of 3M foams in training, but both switched to another brand of foam for training after 3M stopped making firefighting foam. Other municipal departments utilize the training facilities at the refineries.
- The MSP airport (MAC) fire department uses up to 40 gallons of Class B AFFF foam annually for training, and uses a total of 200 to 250 gallons of Class B AFFF foam annually for both training and fire response. The MAC fire department switched from 3M AFFF to another brand of AFFF in approximately 2000 or 2001.

7.2 HIGHEST RISK TRAINING SITES FOR PFOS/PFOA RELEASE

Since PFOS and PFOA are the primary PFC compounds of focus for this project, and since 3M foams are known to contain or degrade to PFOS and PFOA, then those firefighting training sites where 3M

foams have been used are more likely to release PFCs of concern to the environment. There were 34 departments that reported using 3M foam in training or where the type of foam was unspecified and 3M foam use was assumed. The ranked training sites where Class B foams manufactured by 3M are being or have been used are listed in **Table 6, Training Sites with 3M Foam Use**. The sites are listed in order by (1) the amount of 3M foam used annually in training, and (2) overall ranking.

7.3 POTENTIAL NON-POINT SOURCES

Several municipal fire departments use or have used foams manufactured by 3M for fire responses, but do not use the 3M foams for training at one specific location. The areas covered by these fire departments may represent a non-point source for the release of 3M foams to the environment. The following municipal fire departments use or have used 3M foams for fire response but do not use 3M foam for training, or use 3M foam for training at unspecified or unmappable sites:

- Austin
- Bloomington
- Dover
- Little Falls
- Marine-On-St. Croix
- New Brighton
- Pequot Lakes
- Robbinsdale
- Thief River Falls
- Watertown
- Zumbro Falls
- Balaton
- Centennial
- Hastings
- Longville
- Moorhead
- Newport
- Prior Lake
- Sleepy Eye
- Vadnais Heights
- Wayzata
- St. John's University in Collegeville
- Benson
- Cottonwood
- Lake Elmo
- Madelia
- Nerstrand
- Northfield
- Randolph
- Stewartville
- Virginia
- Willmar

Only three municipal fire departments reported the use of 25 gallons or more of non-3M Class B foam annually for fire response or a combination of fire response and training: Burnsville Fire Department (60 gallons of Ansul AFFF/ATC 3/6); Winona Fire Department (45 gallons of Ansulite ARC AR-AFFF); and, Clear Lake Fire Department (25 gallons of Angus AR-AFFF). The use of high volumes of foam for fire response by these departments does not necessarily represent a point source of foam release to the environment, but these fire department areas may represent a non-point source of firefighting foam release to the environment.

8.0 RECOMMENDATIONS

Based on the findings of this research project, Delta recommends the following activities:

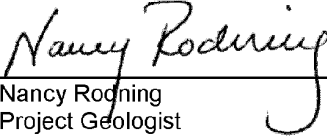
1. Further investigation of the sites listed in **Table 6** due to their use of firefighting foams manufactured by 3M in firefighting training. These training sites may represent a point source for the release of PFOS- and PFOA-containing firefighting foams manufactured by 3M.

Further investigation of the sites listed in **Table 6** may include, but may not be limited to, the following activities:

- Personal contact with each of the fire departments to obtain further information regarding their use of 3M foams in training and their training practices.
 - A site reconnaissance to observe the training site and surrounding area for site topography and drainage, karst features, nearby surface waters and wetlands, nearby water wells, and other potential receptors of PFCs in the environment. The site may also be observed for potential soil, groundwater and/or surface water sample locations.
 - The collection of soil, groundwater and/or surface water samples for laboratory analysis of PFOS, PFOA, and any other PFCs of concern to the MPCA.
2. Follow-up with the fifteen municipal fire departments that train or potentially train with AFFF that did not provide training site information such that the training sites could be located on a map. With additional information from the departments, the training sites should be mapped and the sites ranked.
 3. Identification of and Investigation into fire sites where significant quantities of Class B foams have been released.
 4. Follow-up with the manufacturers of firefighting foams that did not respond to the survey regarding the use of PFCs in their foams. Continued monitoring of literature regarding PFCs in firefighting foams for more information regarding PFOA, PFBA and other PFCs in telomer-based foams. If future research indicates the presence of PFOA, PFBA or other PFCs of concern in telomer-based Class B firefighting foams, Delta recommends re-examination of the data presented in **Tables 4 and 5** to identify departments that train with "significant " quantities of Class B telomer-based foams.
 5. Expand the scope of additional activities to include other PFCs of concern that may be in firefighting foams, especially fluorotelomer sulfonates.
 6. Update the tables included in this report with information from survey questionnaires returned after June 13, 2008, and any additional information obtained after June 30, 2008.

9.0 REMARKS

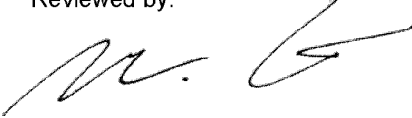
The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and anyone else specifically identified in writing by Delta as a user of this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.



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Date: 6/30/2008

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Date: 6/30/2008

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TABLES

Table 1	U.S. Manufacturers of Firefighting Foams
Table 2	Municipal Fire Department Questionnaire Responses
Table 3	Municipal Fire Department with No Firefighting Foam Use
Table 4	Municipal Fire Departments That Train With Class B Foams
Table 5	Questionnaire Responses from Airport and Refinery Fire Departments and Training Schools
Table 6	Training Sites with 3M Foam Use

Buckeye Fire Equipment	Thomas J. Bower 110 Kings Road Kings Mountain, NC 28086 704-738-7413 www.buckeyef.com	Platinum 1% Platinum 3% Platinum 6%	Platinum 3% Platinum 6% Bugsy's Platinum 3%	3% FP 0% FP				Buckeye Hi-EX	Platinum Class A Solid Foam Fire Fighting Slik	--	--
ICL Performance Products (Phos-Chek)	Eddie Goldberg Fire Safety Business Director Edward.gulibeg@icl- ppip.com www.phoschek.com	--	--	--	--	--	--	--	Phos-Chek WD 881	--	Fire Retardants
Fire-Trol Holdings, L.L.C.	2820 N. 37th Drive Phoenix, AZ 85005 352-882-1922	--	--	--	--	--	--	--	Fire-Trol Class A Firefoam 103 Fire-Trol Class A Firefoam 103B Fire-Trol Class A Firefoam 104	--	Fire-Trol Fire Retardants (powder, gel and liquid)
Verde Environmental, Inc	William L. Scoggin President and CEO 9223 Eastex Freeway Houston, TX 77061 800-526-6588 713-381-6488 www.micro-blaze.com	Micro-Blaze Out Plus 3%	Micro-Blaze Out Plus 3% 3% 3%	--	--	--	--	--	Micro-Blaze Out	--	--
Hazard Control Technologies (HCT)	150 Walter Way Fayetteville, GA 30214 (770)719-5112 www.hct-world.com	--	--	--	--	--	--	--	Pinnacle Class A	--	Interno Flame Retardant F-500 A-B foam
Dynax Corporation	Dr. Eduard Kleiner President 79 Westchester Av. PO Box 285 Pound Ridge, NY 10578 514-764-0702 www.dynaxcorp.com	Dynax Corporation manufactures fluorosulfonates and fluorochlorinated foam stabilizers for use in the production of AFFF, AR-AFFF, FFFP, AR-FFFP, and P2 foams. Dynax's fluorosulfonates/foam stabilizers are only made using a telomerization process, and are not derived from nor degrade to PFOS, PFOA or PFBA, per Dynax.	--	--	--	--	--	--	--	--	--

NOTES:

- (1) Foam known to contain or degrade to PFOS and PFOA.
- (2) Foam not made with PFCs.

DELTA

TABLE 3
MUNICIPAL FIRE DEPARTMENTS WITH NO FIREFIGHTING FOAM USE

The following municipal fire departments in Minnesota indicated that they do not use firefighting foams:

Abercrombie	Haangard, Gonvick, MN	Minnetonka
Askov	Hayward	Mission Twp, Merrifield
Bear Creek	Hollandale	New Munich
Beaver Creek	Hovland	Perley-Lee Twp, Perley
Blomkest	Itasca	Sedan, Glenwood, MN
Brownsville	Kabetogama, Ray, MN	Skyline, Mankato, MN
Canton	Kelsey	St. Leo
Culver	LaSalle	Sunburg
Delavan	Loman	Taunton
Dexter	Louisburg	Tintah
Elrosa	Lowry	Tower
Emily	Mahnomen	Tracy
Eveleth	McKinley	Ulen
Felton	Millerville, Brandon, MN	Viking
Goodridge Area, Goodridge	Minnesota City	Walters
		Wanamingo

DELTA

TABLE 4
MUNICIPAL FIRE DEPARTMENTS THAT TRAIN WITH CLASS B FOAMS

Department	Location	Training Location	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	Annual Foam Use in Training?	SITE RANKING CRITERIA				Overall Site Ranking								
																					Types of Foam					Annual Foam Usage				Site Note	Foam Type: 3M current or former training; 3-10 gal; 3-10 gal; 3-10 gal; 3-10 gal	Surface Water: within 1/4 mile; 1/4 mile; 1/4 mile; 1/4 mile	Wellhead Protection: within 1/4 mile; 1/4 mile; 1/4 mile; 1/4 mile
																					Class A	Class B	Class C	Class D		1-10 Gallons	11-100 Gallons	101-200 Gallons	More than 200 Gallons				
Northland	Northland	Various houses	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13									
New Richmond	New Richmond	Grassy lot on east side of fire hall, 200 Broadway Av. E. closest across street 1st St. NE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
New York Mills	New York Mills	Not specified	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Newviden	Newviden	Fire hall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
North St. Paul	North St. Paul	Ne. St. Paul Public Works, 2100 1st St. N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Northland	Northland	Fire hall, 7271 Hwy. 53, Canyon	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Northrop	Northrop	Behind fire hall, 21 N. Bridgeman	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Olivia	Olivia	Various	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Plymouthville	Plymouthville	City depot	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Pelican Rapids	Pelican Rapids	2nd Av. NW & 4th St.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Shore	Shore	Intersection of 26 and 271, HWY 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Pine River	Pine River	5 1/2 rounds (not school) fire pits on 1st Street, Pine River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Softer	Softer	Fire hall, 301 Leger, 1000 Stead, Pine River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Preston	Preston	Fire hall, 2nd St. & City Hwy. 12, Preston	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Preston	Preston	Not specified	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								
Ramsay	Ramsay	Not specified	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13								

**TABLE 6
TRAINING SITES WITH 3M FOAM USE**

Department	Training Location	SITE RANKING CRITERIA							OVERALL SITE RANKING
		Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
Marathon Refinery	Refinery fire training grounds, St. Paul Park	8	6 (250 gals)	3	3	5	3	2	30
Flint Hills Pine Bend Refinery	Refinery fire training grounds, Rosemount	8	6 (300 gals)	1	1	4	3	0	23
MN Air National Guard 148th	Duluth International Airport ^(b)	8	6 (No foam used in training; up to 100 gals for response)	3	3	0	3	0	23 ^(b)
South Central College	1920 Lee Blvd., North Mankato	8 ^(a)	6 (up to 60 gals)	1	1	2	1	0	19
Metropolitan Airports Commission at Minneapolis/St. Paul International Airport	MSP	8	6 (up to 40 gals)	3	3	5	3	5	33
Former Wrenshall Refinery	Highway 1, Wrenshall	8 ^(a)	6	3	3	0	3	2	25 ^(a)
Hutchinson	205 3rd Avenue SE, Hutchinson	8	6 (up to 20 gals)	3	1	0	3	5	26
North St. Paul	North St. Paul Public Works building, 2303 1st Street N.	8	6 (up to 20 gals)	3	1	2	3	5	28
Fairmont	City shop park lot, 417 E. Margaret St., Fairmont	8 ^(a)	6 (up to 20 gals)	3	3	0	1	0	21
Marshall	Marshall Merit Center, 1001 W. Erie Rd.	8 ^(a)	6 (up to 20 gals)	3	3	0	1	0	21
St. Clair	City of St. Clair	8 ^(a)	6 (up to 20 gals)	3	1	2	3	0	23
Bemidji	Bemidji Municipal Airport	8	4 (5 to 10 gals)	3	3	0	3	5	26
Linwood Twp	Behind fire station, 22870 Typo Creek Dr., Stacy	8	4 (5 to 10 gals)	3	3	0	3	0	21
Upsala	110 W. Elm Av., Upsala	8 ^(a)	4 (up to 10 gals)	3	3	0	3	0	21
St. Paul	1683 Energy Park Dr., St. Paul	8	4 (5 to 10 gals)	1	1	5	3	0	22
Lismore	Barn fire, Birkett & 170th St., Lismore	8 ^(a)	4 (up to 10 gals)	3	1	0	0	0	16
Breckenridge	1312 Minnesota Ave., Breckenridge	8 ^(a)	4 (5 to 10 gals)	1	1		1	0	15
Mankato	Fire Sta. #1, 300 Madison Ave., Mankato	8	4 (5 to 10 gals)	1	0	5	1	0	19
Fridley	North Metro Fire Training Center, 300 71st Ave. Fridley	8	2 (5 gals or less)	1	3	4	3	5	28
Preston	Fillmore County Fairgrounds, Fillmore St. & Cty. Hwy. 12, Preston	8	2 (5 gals or less)	3	3	5	3	4	28
Cottage Grove	Fire Station 2, 8641 80th St. S., Cottage Grove	8	2 (5 gals or less)	3	3	5	1	5	27
Rochester	2021 41st St. NW, Rochester	8	2 (5 gals or less)	1	1	5	3	5	25
Loretto	259 Medina St. N., Loretto	8	2 (5 gals or less)	1	1	0	1	5	18
Lake Superior College	11501 Hwy. 23, Duluth	8	2 (5 gals or less)	3	3	0	1	0	17
Littlefork	Fire hall, McPherson & 3rd Av	8 ^(a)	2 (5 gals or less)	3	1	0	3	0	17
Montevideo	Fire station, 103 Canton, Montevideo	8	2 (5 gals or less)	3	3	0	1	0	17
Pierz	Intersection of 25 and 27, Pierz	8	2 (5 gals or less)	3	3	0	1	0	17
Minneapolis	25 37th Ave. NE, Minneapolis	8	2 (5 gals or less)	3	1	4	1	0	19
Buyck	8035 Orr-Buyck Rd., Buyck	8 ^(a)	2 (5 gals or less)	1	3	0	0	0	14

**TABLE 6
TRAINING SITES WITH 3M FOAM USE**

Department	Training Location	SITE RANKING CRITERIA							OVERALL SITE RANKING
		Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
Claremont	Front of fire hall, Front St., Claremont	8	2 (5 gals or less)	1	0		3	0	14
Buffalo Lake	315 N. Main St., at Main & Church Sts., Buffalo Lake	8	2 (5 gals or less)	1	1	0	1	0	13
Hardwick	Ball field parking lot, Hardwick	8 ^(a)	2 (5 gals or less)	1	1	0	0	0	12
Myrtle	Myrtle ball field, Myrtle	8 ^(a)	2 (5 gals or less)	1	0	5	1	0	17
Northland	Fire hall, 7271 Hwy. 53, Canyon	8 ^(a)	2 (5 gals or less)	1	1	0	0	0	12

Notes:

(a) Foam type or training use not specified, 3M foam use for training assumed.

(b) 3M foam not currently used in training, but currently used in fire response. Site ranked based on use of foam in fire response.

(c) Ranking assumes maximal use of 3M foam in training exercises.

DELTA

List of Appendices

- Appendix A Questionnaires to/from U.S. Manufacturers of Firefighting Foams
- Appendix B Questionnaires to Minnesota Users of Firefighting Foams
- Appendix C Questionnaires from Municipal Fire Departments
- Appendix D Questionnaires from Airport Fire Departments
- Appendix E Questionnaires from Firefighting Training Schools
- Appendix F Questionnaires from Oil Refineries and Camp Ripley
- Appendix G Individual Training Site Profiles

APPENDIX A

Questionnaires to/from U.S. Manufacturers of Firefighting Foams

- Questionnaire
- Cover Letter to Manufacturers
 - List of Manufacturers
 - 3M Response
- Dynax Corporation Response
- Williams Fire & Hazard Control Response



QUESTIONNAIRE

PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Name

Title

Company/Division

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify	
Aqueous Film-Forming Foam (AFFF)	_____	1)				
		2)				
		3)				
		4)				
		5)				
		6)				
AFFF-Polar Foam (AFFF-P)	_____	1)				
		2)				
		3)				
		4)				
		5)				
		6)				
AFFF Alcohol-Resistant Foam (AFFF-AR)	_____	1)				
		2)				
		3)				
		4)				
		5)				
		6)				



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify
	1) _____	1)			
Fluoroprotein Foam (FP)	2) _____	2)			
	3) _____	3)			
	4) _____	4)			
	5) _____	5)			
	6) _____	6)			
Fluoroprotein Polar Foam (FP-P)	1) _____	1)			
	2) _____	2)			
	3) _____	3)			
	4) _____	4)			
	5) _____	5)			
	6) _____	6)			
Film-Forming Fluoroprotein Foam (FFFP)	1) _____	1)			
	2) _____	2)			
	3) _____	3)			
	4) _____	4)			
	5) _____	5)			
	6) _____	6)			



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify
FFFP-Polar Foam (FFFP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
FFFP Alcohol-Resistant Foam (FFFP-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Training Foam	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

April 4, 2008

MANUFACTURER ADDRESS

Subject: Research on PFCs in Firefighting Foams

Dear

Delta Consultants, on behalf of the Minnesota Pollution Control Agency, is conducting research into the historical and current use of perfluorochemicals (PFCs) in firefighting foams. It is the understanding of Delta Consultants that firefighting foams are manufactured with PFCs that may degrade into perfluorooctane sulfate (PFOS), perfluorooctanoic acid (PFOA), perfluorobutanoic acid (PFBA), and other fluorinated compounds. With recent public concern about PFOS, PFOA and PFBA in the environment, the Minnesota Pollution Control Agency is seeking further information from firefighting foam manufacturers about the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams produced now and in the past.



As a manufacturer of firefighting foams, Delta Consultants and the Minnesota Pollution Control Agency are asking for your help and expertise. Delta Consultants is requesting you or one of your experts complete the attached questionnaire. This information from you and other firefighting foam manufacturers will be included in a comprehensive report for the Minnesota Pollution Control Agency that will also include a survey of fire departments and other firefighting entities throughout the State regarding their use of firefighting foams.

Delta Consultants and the Minnesota Pollution Control Agency appreciate your assistance. Please return the completed questionnaire to Delta Consultants in the enclosed addressed envelope within 30 days. If you have any questions or concerns regarding this research or the attached questionnaire, please call:

Nancy Rodning, Delta Consultants, 651-697-5152
Nile Fellows, Remediation Division, MPCA, 651-296-7299

Sincerely,

DELTA CONSULTANTS

Nancy Rodning
Project Scientist

enclosures: Questionnaire and Stamped Self-Addressed Envelope



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473
www.deltaenv.com

STATE_02821044

2222.0087



QUESTIONNAIRE

PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Name

Title

Company/Division

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify
Aqueous Film-Forming Foam (AFFF)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF-Polar Foam (AFFF-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF Alcohol-Resistant Foam (AFFF-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify
Fluoroprotein Foam (FP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Polar Foam (FP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Film-Forming Fluoroprotein Foam (FFFP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by Company? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify
FFFP-Polar Foam (FFFP-P)	_____	1) 2) 3) 4) 5) 6)			
FFFP Alcohol-Resistant Foam (FFFP-AR)	_____	1) 2) 3) 4) 5) 6)			
Training Foam	_____	1) 2) 3) 4) 5) 6)			

LIST OF FIREFOAM MANUFACTURERS

Tyco Fire & Security (Ansul)

Colleen Replier

President, Tyco Fire & Security
451 North Cannon Avenue
Lansdale PA 19446
Tele: 215 393-0241
Fax: 215 362-8727
Email: colleen.repplier@tycofp.com
www.ansul.com/en/home.asp

DuPont

Mark P. Vergnano
Group Vice President - DuPont Safety & Protection
Barley Mill Plaza
4417 Lancaster Pike
Wilmington, DE 19805
www.dupont.com

Chemguard

John Vieweger
Vice President, Sales & Marketing, Fire Suppression Division
204 South Sixth Avenue
Mansfield, TX 76063
817-473-9964 x206
www.chemguard.com

U.S. Foam Technologies

Alden Ozment
President, U.S. Foam Technologies
800 East Cotton Street
Longview, TX 75602
903-753-3901 x100
www.usfoam.com

Kidde Fire Fighting, a UTC Fire & Security Company

Kidde Fire Fighting
Attn: Bryan Rambo
180 Sheree Blvd.,
Suite 3900
Exton, PA 19341
610-363-1400
www.kidde-fire.com (National Foam, Feecon, Angus)

Williams Fire & Hazard Control

Eric Lavergne, President
P.O. Box 1359
Mauriceville, TX 77626
800-231-4613
www.williamsfire.com
1675 Texla Road
Vidor, TX 77662

Buckeye Fire Equipment

Thomas J. Bower
President, Buckeye Fire Equipment
110 Kings Road
Kings Mountain, NC 28086
704-739-7415
www.buckeyef.com

Verde Environmental, Inc.

William L. Scogin
President and CEO
9223 Eastex Freeway
Houston, TX 77093
800-626-6598
713-691-6468
www.micro-blaze.com

ICL Performance Products (Phos-Chek)

Eddie Goldberg
Fire Safety Business Director
Edward.goldberg@icl-pplp.com
www.phoschek.com

Fire-Trol Holdings, L.L.C.

2620 N. 37th Drive
Phoenix, AZ 85009
530-865-4932

Summit Environmental

Don Jordan
President and CFO
11610 Dallas Parkway, Suite 2100
Dallas, TX 75248
800-522-7841
972-816-1614
www.summitenvironmental.com

Dynax

Dynax Corporation
79 Westchester Av.
PO Box 285
Pound Ridge, NY 10576
914-764-0202
www.dynaxcorp.com

Jean B. Sweeney
Staff Vice President

3M Environmental, Health and
Safety Operations

900 Bush Avenue, Building 42-2E-26
PO Box 33331
St. Paul, MN 55133-3331
651 778 5488



May 6, 2008

Delta Environmental
5910 Rice Creek Parkway
Suite 100
St. Paul, MN 55126

Attention: Ms. Nancy Rodning

Subject: Response to Letter of Request dated April 2, 2008

Dear Ms. Rodning:

This is in response to your letter dated April 2, 2008, requesting information on production of fire fighting foams at 3M. We are pleased to provide the information on the form enclosed with your request. If you have any questions or need additional information, please contact Mr. Michael A. Santoro, Director of Regulatory Affairs at 651-733-6374.

Sincerely,

A handwritten signature in cursive script that reads "Jean B. Sweeney".

Jean Sweeney
Vice President
3M Environmental, Health, and Safety Operations

Enclosure

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

April 2, 2008

Ms. Jean Sweeney
Vice President, 3M Environmental, Health and Safety Operations
3M Corporate Headquarters
3M Center
St. Paul, MN 55144-1000

Subject: Research on PFCs in Firefighting Foams

Dear Ms. Sweeney:

Delta Consultants, on behalf of the Minnesota Pollution Control Agency, is conducting research into the historical and current use of perfluorochemicals (PFCs) in firefighting foams. It is the understanding of Delta Consultants that firefighting foams historically manufactured by 3M contained PFCs that may have biodegraded into perfluorooctane sulfate (PFOS) and/or perfluorooctanoic acid (PFOA). With recent public concern about PFOS, PFOA and perfluorobutanoic acid (PFBA) in the environment, the Minnesota Pollution Control Agency is seeking further information from firefighting foam manufacturers about the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams produced now and/or in the past.



As a former manufacturer of firefighting foams, Delta Consultants and the Minnesota Pollution Control Agency are asking for your help and expertise. Delta Consultants is requesting you or one of your experts complete the attached questionnaire. This information from 3M and other firefighting foam manufacturers will be included in a comprehensive report for the Minnesota Pollution Control Agency that will also include a survey of fire departments and other firefighting entities throughout the State regarding their use of firefighting foams.

Delta Consultants and the Minnesota Pollution Control Agency appreciate your assistance. Please return the completed questionnaire to Delta Consultants in the enclosed addressed envelope within 30 days. If you have any questions or concerns regarding this research or the attached questionnaire, please call:

Nancy Rodning, Delta Consultants, 651-697-5152
Nile Fellows, Remediation Division, MPCA, 651-296-7299

Sincerely,

DELTA CONSULTANTS

Nancy Rodning
Nancy Rodning
Project Scientist

enclosures: Questionnaire and Stamped Self-Addressed Envelope



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473
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STATE_02821052

2222.0095



QUESTIONNAIRE

PFCs in Firefighting Foam

1. Were 3M's firefighting foams made using only an electrochemical fluorination (EFC) process? Did 3M manufacture firefighting foams using a telomerisation process?

3M produced firefighting foams using perfluorinated compounds
made with the electrochemical fluorination (EFC) process only.
3M did not use the telomerisation process

2. Do the PFCs used in fire-fighting foams contain or degrade to perfluorobutanoic acid (PFBA)? If so, under what conditions?

NO

3. Is 3M currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

3M has discontinued the manufacture and development of
fire fighting foams.

Please complete the attached Table regarding your current and/or past manufacture of fire-fighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodring, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Michael A. Santoro
Name

Director, Regulatory Affairs
Title

3M Company
Company/Division

May 6, 2008
Date



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**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by 3M? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify
Aqueous Film-Forming Foam (AFFF)	Yes	1) Lightwater™		Yes	Yes - contains a
		2) Commercial	1965 - 2002		PFOS salt and
		3) Military Spec.	1960 - 2002		a PFHS adduct
		4)			
		5)			
		6)			
AFFF-Polar Foam (AFFF-P)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF Alcohol-Resistant Foam (AFFF-AR)	Yes	1) Lightwater™ ATC	1980(?) - 2000	Yes	Yes - contains a
		2) (Alcohol Type Concentrate)			PFOS salt and
		3)			a PFHS adduct
		4)			
		5)			
		6)			



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by 3M? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify
		1)			
		2)			
		3)			
		4)			
		5)			
		6)			
		1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Foam (FP)	No				
		1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Polar Foam (FP-P)	No				
		1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Film-Forming Fluoroprotein Foam (FFFP)	No				
		1)			
		2)			
		3)			
		4)			
		5)			
		6)			



**QUESTIONNAIRE
PFCs in Firefighting Foam**

Type of Foam	Is/Was foam type manufactured by 3M? (yes or no)	Brand name(s) foam is/was sold under?	Years of brand production?	Is/was foam made with PFCs?	Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify
FFFFP-Polar Foam (FFFFP-P)	NO	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
FFFFP Alcohol-Resistant Foam (FFFFP-AR)	NO	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Training Foam	Yes	1) 3M Training Foam	~1998	No	No
		2) made by Coverfoam			
		3)			
		4)			
		5)			
		6)			

Class A Yes ? No No



QUESTIONNAIRE

PFCs in Firefighting Foam

1. Are the PFCs used in your fluorosurfactants manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

Telomerization Process Only.

2. Do the PFCs used in the manufacture of your firefighting foam products contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

Dynax Fluorosurfactants/Foam Stabilizers used by agent
producers are not derived from or degrant into PFOS, PFOA, PFBA.

3. Are you currently developing or manufacturing firefighting foams products that do not contain PFCs? Under what brand name?

Dynax is not a foam agent producer.

Please complete the attached Table regarding your current and/or past manufacture of fire-fighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Dr. Eduard K. Kleiner

Name

President

Title

Dynax Corporation

Company/Division

April 9, 2008

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

April 9, 2008

Ms. Nancy Rodning, Project Specialist
Delta Consultants
5910 Rice Creek Parkway
Suite 100
St. Paul, MN 55126

Subject: PFCs in Fire Fighting Foam Agents

Dear Ms. Rodning:

Thank you for your letter and questionnaire of April 4, 2008 regarding "Research on PFCs in Firefighting Foams."

As I had discussed with you, Dynax is not a producer of fire fighting foam agents such as AFFF and FFFP agents, but is a major producer and supplier of fluorosurfactants and fluorochemical foam stabilizers (= polymeric fluorosurfactants) to agents producers worldwide. Information regarding Dynax fluorochemicals can be found on our website, www.dynaxcorp.com.

Dynax, founded in 1991, has always been promoting telomer-based fluorosurfactants for the production of what we refer to as AFFF-EMB (Environmentally More Benign) agents and has carried out extensive R+D for the US Air Force, as described in the attached title page of the Phase II Final Report of SBIR Air Force Contract AF 93-009.

Dynax fluorosurfactants/foam stabilizers are used by agent manufacturers for the production of the following fire fighting foam agents:

- AFFF and AR-AFFF Agents
- FFFP and AR-FFFP Agents
- FP Agents

For information regarding agent brand names and other agent related questions, you should contact the agent producers directly.

Enclosed please find page one of your questionnaire. In light of EPA's Stewardship Program regarding the 2010/2015 Phase-Out of C8 and higher homolog fluorochemicals, I am surprised that your questionnaire does not include

Ms. Nancy Rodning, Project Specialist
Delta Consultants

April 10, 2008
Page 2

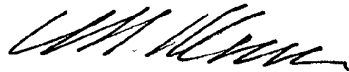
questions regarding the use of all C6 telomer based vs. C8 and higher telomer-based fluorosurfactants/foam stabilizers.

The enclosed DuPont press release is addressing this issue of C6 telomer based fluorochemicals.

I've also enclosed Dynax advertisements published in the January and April 2008 issues of the *Industrial Fire Journal* and a recent publication about Dynax from the August/September 2007 issue of *The Economy Tribune*.

Please let me know if you need additional information.

With best regards,



Eduard Kleiner

encs.

EKK/r

It's This Simple:

C6 Fluorosurfactants + C6 Foam Stabilizers

= BEST AR-AFFFs and AR-FFFPs

— “Best AR-AFFF and AR-FFFP Agents” meet the most stringent fire performance specifications with the lowest fluorochemical content. Fluorochemicals in “Best Agents” should neither be derived from nor degrade into PFOA or its higher homologs. In addition, “Best Agents” meet environmental requirements proposed by US and foreign regulatory agencies.

— ONLY Dynax offers a family of C6 Fluorosurfactants and C6 Foam Stabilizers for the production of low-viscosity 3x3, 1x3 and 1x1 AR-AFFF and AR-FFFP agents meeting “Best” environmental and fire performance requirements. The same applies to AFFF and FFFP agents derived from Dynax C6 Fluorosurfactants. All Dynax C6 Fluorochemicals are non-flammable and free of corrosive halide salts.

Dynax C6 Fluorosurfactants and Foam Stabilizers

Dynax Product	Ionic Type	Agent Application Guide			
		AFFF	AR-AFFF	FFFP	AR-FFFP
Fluorosurfactants					
DX1030	Anionic	●	●	—	—
DX1040	Anionic	●	●	—	—
DX1080	Nonionic	●	●	●	●
DX1090	Nonionic	●	●	●	●
DX1025*	Anionic	●	●	—	—
Foam Stabilizers					
DX5011	Anionic	—	●	—	●
DX5022	Anionic	—	●	—	●
DX5065**	Anionic	—	●	—	—
DX5066**	Anionic	—	●	—	●

* Blend of Fluorosurfactants ** Blend of Fluorosurfactants and Foam Stabilizers

US EPA PFOA Stewardship Program

By 2010: 95% Reduction of facility emissions and product content level of PFOA, precursor chemicals that can break down to PFOA and related higher homolog chemicals.

By 2015: Elimination of PFOA, PFOA precursors and related higher homologue chemicals from emission and products.

DYNAX CORPORATION
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F 914 764 0553 www.dynaxcorp.com

dynax
FLUORO-CHEMICALS

Foams made by Ansoal - (thunderstorm)

DELTA

QUESTIONNAIRE

PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

We do not manufacture Fire Fighting Foam

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Eric Lavoie
Name

Williams Fire & Haz.
Title

4/8/08
Company/Division

Date



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APPENDIX B

Questionnaires to Minnesota Users of Firefighting Foams

List of Minnesota Surveyed Departments and Schools

May 23, 2008

Dear Fire Chief:

On April 25, 2008, the Minnesota Pollution Control Agency (MPCA) sent a request for information on the types and amounts of firefighting foam used by your department. We are collecting this information as part of ongoing research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

So far we have received responses from 275 departments around the state but we would like to hear from as many as possible. Your input is important to us. We have enclosed an additional copy of the questionnaire for your convenience. Please take a few minutes to complete the enclosed questionnaire regarding your department's past and present use of firefighting foams.

Please return the completed questionnaire in the enclosed self-addressed, stamped envelope to Delta Consultants, who will be compiling the results for the MPCA, **by June 6, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,



Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Enclosures (2)

Foam use questionnaire
Stamped, addressed return envelope

April 25, 2008

Dear Fire Chief:

The Minnesota Pollution Control Agency (MPCA) is conducting research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

Your input is important to us. Please complete the enclosed questionnaire regarding your department's past and present use of firefighting foams. Please return the completed questionnaire to Delta Consultants, who will be compiling the results for the MPCA, **by May 9, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,



Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Enclosures (2)

Foam use questionnaire
Stamped, addressed return envelope

April 28, 2008

SCHOOL ADDRESS

Dear

The Minnesota Pollution Control Agency (MPCA) is conducting research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

Your input is important to us. Please complete the enclosed questionnaire regarding your school's current and historic use of firefighting foams in your training program. Please return the completed questionnaire to Delta Consultants, who will be compiling the results for the MPCA, **by May 9, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,



Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Attachment (1)
Foam use questionnaire



QUESTIONNAIRE Firefighting Foam Use in Fire Training

- Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
 Class A only Class B only Both Class A and Class B
- How often is Class B or Class A foam used in response to fire calls?
 0-25% of fires 25-50% of fires 75-100% of fires
- What type of foam does your Department use for training exercises operations?
 Class A only Class B only Both Class A and Class B
 Training foam No foam is used in training (If none, please skip to Question 8)
- How often is foam used in training exercises?
 Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____
- How much foam is used per training event?
 Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____
- In training, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____
- Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use (please specify)?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



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2222.0110



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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2222.0111



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fire Department

_____ Date

E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

- Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
 Class A only Class B only Both Class A and Class B
- How often is Class B or Class A foam used in response to fire calls?
 0-25% of fires 25-50% of fires 75-100% of fires
- What type of foam does your Department use for training exercises operations?
 Class A only Class B only Both Class A and Class B
 Training foam No foam is used in training (**If none, please skip to Question 8**)
- How often is foam used in training exercises?
 Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____
- How much foam is used per training event?
 Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____
- Where does/did the training take place? Please include specific location information for current and past training areas.

- In training, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____
- In fire responses at the refinery, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____
- Do other fire departments utilize your training facility? If so, what department? _____
Do the other departments provide their own foam? Yes No



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QUESTIONNAIRE
Firefighting Foam Use in Fire Training

10. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

Yes - **Please proceed to Question 2**

No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

3. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

4. Where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Containment system for off-site disposal

Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

6. Do other fire departments utilize your facility for their training with foam?

Yes

No

-- **If yes**, do the other fire departments bring their own foam? Yes No

-- **If yes**, approximately how much foam is discharged annually by other departments at your facility?

Less than 5 gallons 5-25 gallons 25 to 50 gallons

More than 50 gallons (please specify): _____



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A			
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Name and Title

School Name

Phone Number Date

E-Mail Address



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STATE_02821073

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* ABERCROMBIE FIRE PROTECTION DISTRICT	606 BROADWAY, PO BOX 67	ABERCROMBIE	58001
* ADA FIRE DEPARTMENT	404 W MAIN STREET	ADA	56510
* ADAMS VOL FIRE DEPT	MAIN ST, BOX 357	ADAMS	55909
* ADRIAN FIRE DEPARTMENT	BOX 187	ADRIAN	56110
* AITKIN FIRE DEPARTMENT	P O BOX 161	AITKIN	56431
* ALASKA FIRE DEPARTMENT	28987 ALASKA LANE	PUPOSKY	56667
* ALBANY FIRE DEPARTMENT	221 4TH ST, PO BX 1	ALBANY	56307
* ALBERT LEA FIRE DEPT	221 E CLARK ST	ALBERT LEA	56007
* ALBERT LEA TWP FIRE DEPT	712 E MAIN	ALBERT LEA	56007
* ALBERTVILLE FIRE DEPT	11350 57TH ST NE, PO BOX 56	ALBERTVILLE	55301
ALBORN FIRE DEPARTMENT	6955 STONEY BROOK ROAD	ALBORN	55702
ALDEN FIRE DEPARTMENT	BOX 241, 174 N BROADWAY	ALDEN	56009
ALEXANDRIA FIRE DEPT	302 FILLMORE ST	ALEXANDRIA	56308
ALMELUND FIRE DEPT	15740 MAPLE LN	CENTER CITY	55012
* ALPHA FIRE DEPARTMENT	230 MAIN ST N	ALPHA	56111
AL TURA FIRE DEPARTMENT	PO BOX 102	AL TURA	55910
ALVARADO VOL FIRE DEPT	PO BOX 953	ALVARADO	56710
AMBOY FIRE DEPARTMENT	PO BOX 115	AMBOY	56010
ANDOVER FIRE DEPT	13875 CROSSTOWN BLVD NW	ANDOVER	55304
ANNANDALE FIRE DEPT	PO BX K, 30 CEDAR ST E	ANNANDALE	55302
* ANOKA-CHAMPLIN FIRE DEPT	2015 - 1ST AVE N	ANOKA	55303
* APPLE VALLEY FIRE DEPT	7100 147TH STREET WEST	APPLE VALLEY	55124
* APPLETON FIRE DEPT	230 W SNELLING AVE	APPLETON	56208
ARCO FIRE DEPARTMENT	RR 1 BOX 81	ARCO	56113
ARGYLE FIRE DEPARTMENT	BOX 241	ARGYLE	56713
* ARLINGTON FIRE DEPT	312 WALBAN ST	ARLINGTON	55307
* ARROWHEAD FIRE DEP	9797 HIGHWAY 2	BROOKSTON	55711
* ASHBY FIRE DEPARTMENT	203 W MAIN STREET	ASHBY	56309
* ASKOV VOL FIRE DEPT.	PO BOX 245	ASKOV	55704
ATWATER FIRE DEPARTMENT	PO BOX 457	ATWATER	56209
AUDUBON FIRE DEPARTMENT	PO BOX 263	AUDUBON	56511
* AURORA FIRE DEPARTMENT	PO BOX 160, 16 W 2ND AVE N	AURORA	55705
* AUSTIN FIRE DEPARTMENT	122 1ST AVE NE	AUSTIN	55912
* AVOCA FIRE DEPARTMENT	201 NE 2ND ST	AVOCA	56114
* AVON FIRE DEPARTMENT	P O BOX 244	AVON	56310
* BABBITT VOL FIRE DEPT	71 SOUTH DRIVE	BABBITT	55706
BACKUS VOL FIRE DEPT	PO BOX 44	BACKUS	56435
BADGER FIRE DEPARTMENT	P O BOX 193	BADGER	56714
* BAGLEY FIRE DEPARTMENT	P O BOX 178	BAGLEY	56621
* BALATON FIRE DEPARTMENT	P O BOX 333	BALATON	56115
* BALSAM VOL FIRE DEPT	1286 SCENIC HIGHWAY	BOVEY	55709
BARNESVILLE FIRE DEPT	BOX 481	BARNESVILLE	56514
* BARNUM VOL FIRE DEPT	BOX 161	BARNUM	55707
BARRETT FIRE DEPARTMENT	BOX 33	BARRETT	56311
* BATTLE LAKE FIRE DEPT	PO BOX 662	BATTLE LAKE	56515
* BAUDETTE FIRE DEPT	PO BX 686, 110 1ST AV SW	BAUDETTE	56623
BAYPORT FIRE DEPARTMENT	294 3RD ST N	BAYPORT	55003
* BEAR CREEK FIRE DEPT	25814 UPPER RICE LAKE RD	SHEVLIN	56676
* BEARDSLEY FIRE DEPT		BEARDSLEY	56211
BEARVILLE TWP FIRE DEPT	62949 COUNTY ROAD 557	COOK	55723
BEAVER BAY VOL FIRE DEPT	BOX 416	BEAVER BAY	55601
* BEAVER CREEK FIRE DEPT	PO BX 61	BEAVER CREEK	56116
BECKER VOL FIRE DEPT	PO BOX 275	BECKER	55308
* BELGRADE FIRE DEPT	PO BOX 296	BELGRADE	56312
BELLE PLAINE FIRE DEPT	700 E MAIN ST	BELLE PLAINE	56011
* BELLINGHAM FIRE DEPT	2018 300TH ST	BELLINGHAM	56212
* BELTRAMI FIRE DEPARTMENT	24100 430TH STREET SW	BELTRAMI	56517
* BELVIEW FIRE DEPARTMENT	PO BX 159, 202 S MAIN	BELVIEW	56214
* BEMIDJI FIRE DEPARTMENT	5TH ST & AMERICA AVE	BEMIDJI	56601
* BENSON FIRE DEPARTMENT	1410 KANSAS AV	BENSON	56215
* BERTHA FIRE DEPARTMENT	P O BOX 245	BERTHA	56437
BETHEL FIRE DEPARTMENT	139 BROADWAY ST NW, PO BX 67	BETHEL	55005
BIG FALLS FIRE DEPARTMENT	P O BOX 158	BIG FALLS	56627
* BIG LAKE FIRE DEPARTMENT	20243 CR 43, PO BX 129	BIG LAKE	55309
* BIGELOW FIRE DEPARTMENT	BOX 38	BIGELOW	56117
BIGFORK VOL FIRE DEPT	PO BOX 128	BIGFORK	56628
BIRCHDALE RURAL FIRE DEPT.	PO BX GENERAL DELIVERY	BIRCHDALE	56629
* BIRD ISLAND FIRE DEPT	P O BOX 152	BIRD ISLAND	55310
BIWABIK TWP VOL FIRE DEPT	6555 OAK DRIVE	GILBERT	55741
BIWABIK VOL FIRE DEPT.	PO BOX 917	BIWABIK	55708
BLACKDUCK FIRE DEPT	PO BOX 380	BLACKDUCK	56630
* BLACKHOOF FIRE DEPART	1757 VALLEYVIEW RD	BARNUM	55707
* BLOMKEST FIRE DEPART	19450 HWY 77 SOUTH	BLOMKEST	56216
* BLOOMING PRAIRIE FIRE DEPT.	138 HWY AV S, PO BX 796	BLOOMING PRAIRIE	55917
* BLOOMINGTON FIRE DEPT	10 W 95TH ST	BLOOMINGTON	55420
BLUE EARTH FIRE DEPT	PO BOX 38	BLUE EARTH	56013

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* BLUFFTON FIRE DEPT	P O BOX 32	BLUFFTON	56518
BOIS FORTE VOL FIRE DEPT	5344 LAKESHORE DRV,PO BOX 16	NETT LAKE	55772
* BORUP FIRE DEPARTMENT	PO BOX 81	BORUP	56519
* BOVEY FIRE DEPARTMENT	BOX 435	BOVEY	55709
* BOWLUS FIRE DEPARTMENT	PO BOX 56	BOWLUS	56314
BOYD FIRE DEPARTMENT	PO BOX 7	BOYD	56218
BRAHAM FIRE DEPARTMENT	BROADWAY AV S, PO BX 200	BRAHAM	55006
BRAINERD CITY FIRE DEPT	23 LAUREL ST	BRAINERD	56401
* BRANDON FIRE DEPT	P O BOX 506	BRANDON	56315
* BRECKENRIDGE FIRE DEPT	CITY HLL, 420 NEBRASKA AV	BRECKENRIDGE	56520
* BREITUNG FIRE DEPARTMENT	PO BOX 337	SOUDAN	55782
BREVATOR FIRE DEPT	PO BOX 623	CLOQUET	55720
* BREWSTER FIRE DEPT	PO BOX 326	BREWSTER	56119
BRICELYN FIRE DEPARTMENT	P O BOX 338, MAIN ST	BRICELYN	56014
* BRIMSON AREA VOL FIRE DEPT	3127 HWY 44	BRIMSON	55602
* BROOK PARK FIRE DEPT	BOX 8	BROOK PARK	55007
BROOKLYN CENTER FIRE DEPT.	6301 SHINGLE CREEK PKWY	BROOKLYN CENTER	55430
BROOKLYN PARK FIRE DEPT	5200 85TH AVE N	BROOKLYN PARK	55443
* BROOTEN FIRE DEPARTMENT	PO BOX 355	BROOTEN	56316
* BROWERVILLE FIRE DEPT	P O BOX 247	BROWERVILLE	56438
* BROWNS VALLEY FIRE DEPT	PO BOX 218	BROWNS VALLEY	56219
* BROWNSDALE FIRE DEPT	P O BOX 64	BROWNSDALE	55918
* BROWNSVILLE FIRE DEPT	302 ADAMS, PO BOX 138	BROWNSVILLE	55919
* BROWNTON VOL FIRE DEPT	431 6TH AVE S	BROWNTON	55312
BRUNO FIRE DEPARTMENT	BOX 52	BRUNO	55712
* BUFFALO FIRE DEPARTMENT	212 CENTRAL AVE NE	BUFFALO	55313
* BUFFALO LAKE FIRE DEPT		BUFFALO LAKE	55314
* BUHL VOLUNTEER FIRE DEPT	BOX 767	BUHL	55713
* BURNSVILLE FIRE DEPT	100 CIVIC CENTER PKWY	BURNSVILLE	55337
BUTTERFIELD FIRE DEPT	103 SECOND ST N, PO BOX F	BUTTERFIELD	56120
* BUYCK COMM VOL FIRE DEPT	8035 ORR/BUYCK RD	BUYCK	55771
* BYRON FIRE DEPARTMENT	707 FRONTAGE RD NW, BX 445	BYRON	55920
CALEDONIA FIRE DEPT	231 E MAIN, PO BOX 232	CALEDONIA	55921
CALLAWAY FIRE DEPT		CALLAWAY	56521
* CALUMET FIRE DEPT	P O BOX 207	CALUMET	55716
* CAMBRIDGE FIRE DEPT	300 3RD AVENUE NE	CAMBRIDGE	55008
CAMPBELL FIRE DEPT	BOX 26	CAMPBELL	56522
* CANBY FIRE DEPARTMENT	103 9TH ST W	CANBY	56220
CANNON FALLS FIRE DEPT	320 W HOFFMAN	CANNON FALLS	55009
* CANOSIA VOL FIRE DEPT	5694 MARTIN RD	DULUTH	55811
* CANTON FIRE DEPT	PO BOX 179, MAIN ST	CANTON	55922
CARLOS FIRE DEPT	P O BOX 317	CARLOS	56319
* CARLTON VOLUNTEER	CARLTON CIVIC CTR, PO BX 336	CARLTON	55718
CARSONVILLE VOLUNTEER	48465 STATE HWY 225	PONSFORD	56575
CARVER FIRE DEPT	PO BX 361, 117 BROADWAY N	CARVER	55315
* CASS LAKE FIRE DEPT	BOX 824	CASS LAKE	56633
CENTENNIAL FIRE DEPT	7741 LAKE DR	LINO LAKES	55014
CENTER CITY FIRE DEPT	PO BOX 413	CENTER CITY	55012
CENTRAL LAKES VOL FIRE DEPT	7562 MURPHY LAKE RD	EVELETH	55734
CEYLON FIRE DEPARTMENT	119 W MAIN	CEYLON	56121
CHANDLER FIRE DEPT	241 4TH ST, PO BX 57	CHANDLER	56122
* CHANHASSEN FIRE DEPT	PO BX 147-690 COULTER DR	CHANHASSEN	55317
* CHASKA FIRE DEPARTMENT	285 ENGLER BLVD	CHASKA	55318
CHATFIELD FIRE DEPT	322 MAIN ST SOUTH	CHATFIELD	55923
* CHERRY TWP FIRE DEPT	10192 HWY 92	MOUNTAIN IRON	55768
* CHISAGO CITY FIRE DEPT	BOX F	CHISAGO CITY	55013
* CHISHOLM FIRE DEPARTMENT	316 W LAKE STREET	CHISHOLM	55719
* CHOKIO FIRE DEPARTMENT		CHOKIO	56221
CLARA CITY FIRE DEPT	215 FIRST ST NW, PO BX 190	CLARA CITY	56222
* CLAREMONT FIRE DEPT	BOX D	CLAREMONT	55924
CLARISSA FIRE DEPARTMENT	P O BOX 396	CLARISSA	56440
* CLARKFIELD FIRE DEPT	MUNICIPAL BLDG, 904 10TH AV	CLARKFIELD	56223
* CLARKS GROVE VOL FIRE DEPT	BOX 163	CLARKS GROVE	56016
* CLEAR LAKE FIRE DEPT	309 MILL STREET, PO BX 298	CLEAR LAKE	55319
* CLEARBROOK FIRE DEPT	P O BOX 306	CLEARBROOK	56634
* CLEARWATER FIRE DEPT	BOX 127	CLEARWATER	55320
* CLEMENTS FIRE DEPT	C/O CITY CLERK OFFICE, PO BOX 17	CLEMENTS	56224
CLEVELAND FIRE DEPT	PO BOX 57	CLEVELAND	56017
* CLIFTON TWP FIRE DEPT	6092 HOMESTEAD RD	DULUTH	55804
CLIMAX FIRE DEPARTMENT	107 W BROADWAY, PO BX 216	CLIMAX	56523
CLINTON FIRE DEPARTMENT	P O BOX 280	CLINTON	56225
CLINTON VOL. FIRE DEPT	3858 HWY 7	IRON	55751
CLONTARF FIRE DEPARTMENT	BOX 267	CLONTARF	56226
* CLOQUET FIRE DEPARTMENT	508 CLOQUET AVE	CLOQUET	55720
* COHASSET FIRE DEPT	PO BOX 242	COHASSET	55721
COKATO FIRE DEPARTMENT	P O BOX 1030	COKATO	55321

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* COLD SPRING FIRE DEPT	27 RED RIVER AVE S	COLD SPRING	56320
COLERAINE FIRE DEPT	100 ROOSEVELT, PO BX 670	COLERAINE	55722
COLOGNE FIRE DEPARTMENT	110 LOUIS ST, PO BOX 88	COLOGNE	55322
COLUMBIA HEIGHTS FIRE DEPT	555 MILL ST NE	COLUMBIA HEIGHTS	55421
* COLVILL AREA VOL FIRE DEPT	101 COUNTY ROAD 14	GRAND MARAIS	55604
COLVIN TWP FIRE DEPT	2577 VERMILION TRAIL	MAKINEN	55763
* COMFREY FIRE DEPARTMENT	PO BX 55, 120 E BROWN ST	COMFREY	56019
CONGER FIRE DEPARTMENT	BOX 421	CONGER	56020
COOK FIRE DEPARTMENT	127 S RIVER ST, PO BX 155	COOK	55723
* COON RAPIDS FIRE DEPT	11155 ROBINSON DRIVE	COON RAPIDS	55433
CORRELL FIRE DEPARTMENT	119 HWY 7 E, PO BOX 127	CORRELL	56227
* COSMOS FIRE DEPT	BX 188, 206 GEMINI AV E	COSMOS	56228
COTTAGE GROVE FIRE DEPT	8641 80TH ST S	COTTAGE GROVE	55016
COTTON VOL FIRE DEPT	6844 BUG CREEK RD	COTTON	55724
* COTTONWOOD FIRE DEPT	PO BOX 427	COTTONWOOD	56229
COURTLAND FIRE DEPT	PO BOX 41	COURTLAND	56021
CRANE LAKE FIRE DEPT	P O BOX 407	CRANE LAKE	55725
* CROMWELL VOL FIRE DEPT	BOX 44	CROMWELL	55726
CROOKED LAKE VOL FIRE DEPT	P O BOX 44	OUTING	56662
CROOKSTON FIRE DEPT	620 S MAIN	CROOKSTON	56716
* CROSBY VOL FIRE DEPT	PO BOX 6	CROSBY	56441
* CROSSLAKE FIRE DEPT	37028 COUNTY RD 66	CROSSLAKE	56442
* CULVER FIRE DEPARTMENT	5571 HWY 31	CULVER	55727
CURRIE VOL FIRE DEPT	BOX 75	CURRIE	56123
* CUYUNA FIRE DEPARTMENT	24124 CO RD 30, PO BX 550	AITKIN	56431
CYRUS FIRE DEPARTMENT	PO BX 36, 113 E MAIN ST	CYRUS	56323
DAKOTA FIRE DEPARTMENT	P O BOX 417	DAKOTA	55925
DALBO FIRE DEPARTMENT	37892 HWY 47 NW, PO BOX 60	DALBO	55017
* DALTON FIRE DEPARTMENT		DALTON	56324
DANUBE FIRE DEPARTMENT	BOX 162	DANUBE	56230
DANVERS FIRE DEPARTMENT	ONE BANK PLAZA	DANVERS	56231
* DARFUR FIRE DEPARTMENT	RR 1 BOX 105	BUTTERFIELD	56120
* DASSEL FIRE DEPARTMENT	P O BOX 56	DASSEL	55325
DAWSON FIRE DEPARTMENT	P O BOX 9	DAWSON	56232
DAYTON FIRE DEPARTMENT	P O BOX 155	DAYTON	55327
* DEER CREEK FIRE DEPT	PO BOX 161	DEER CREEK	56527
DEER RIVER FIRE DEPT	BOX 312	DEER RIVER	56636
* DEERWOOD FIRE DEPT	104 CROSS RD, PO BX 310	DEERWOOD	56444
DEGRAFF FIRE DEPARTMENT	101 4TH STREET S	DEGRAFF	56271
DELANO VOL FIRE DEPT	245 N 2ND ST, PO BX 108	DELANO	55328
* DELAVAN VOL FIRE DEPT	100 S MAIN STREET	DELAVAN	56023
DENT FIRE DEPARTMENT		DENT	56528
DETROIT LAKES FIRE DEPT	PO BX 647, 1025 ROOSEVELT AV	DETROIT LAKES	56502
* DEXTER VOL FIRE DEPT	BOX 149	DEXTER	55926
* DILWORTH FIRE DEPT	PO BX 187, 709 1ST AV NW	DILWORTH	56529
DODGE CENTER FIRE DEPT	BOX 369	DODGE CENTER	55927
DONNELLY FIRE DEPT	BOX 81	DONNELLY	56235
* DOVER FIRE DEPARTMENT	PO BOX 65	DOVER	55929
DOVRAY FIRE DEPARTMENT	PO BX 72, 310 WOODMAN AVE	DOVRAY	56125
DULUTH FIRE DEPARTMENT	602 W 2ND ST	DULUTH	55802
DUMONT FIRE DEPARTMENT	BOX 96	DUMONT	56236
DUNDEE FIRE DEPARTMENT	100 N CARPENTER ST	DUNDEE	56131
* DUNNELL-LAKE FREMONT FIRE DEPT	P O BOX 216	DUNNELL	56127
DUXBURY FIRE DEPARTMENT	61195 McCULLEN DRIVE	SANDSTONE	55072
* EAGAN FIRE DEPARTMENT	3795 PILOT KNOB RD	EAGAN	55122
EAGLE BEND FIRE DEPT	P O BOX 336	EAGLE BEND	56446
* EAGLE LAKE VOL FIRE DEPT	101 PLAINVIEW	EAGLE LAKE	56024
EAGLES NEST FIRE DEPT	1552 BEAR HEAD ST PK RD	ELY	55731
EAST BETH EL FIRE DEPT	2241 221ST AVE NE	CEDAR	55011
* EAST GRAND FORKS FIRE DEPT	415 4TH STREET NW	EAST GRAND FORKS	56721
EAST HUBBARD CTY FIRE PROTECTION DISTRICT	PO BOX 214	AKELEY	56433
* EASTON VOL FIRE DEPT	P O BOX 94	EASTON	56025
* ECHO FIRE DEPARTMENT	RR 1, BOX 204	ECHO	56237
* EDEN PRAIRIE FIRE DEPT	14800 SCENIC HEIGHTS RD	EDEN PRAIRIE	55344
* EDEN VALLEY FIRE DEPT	171 COUSART AVE, PO BOX 67	EDEN VALLEY	55329
EDGERTON FIRE DEPT		EDGERTON	56128
* EDINA FIRE DEPARTMENT	6250 TRACY AVE S	EDINA	55436
EITZEN FIRE DEPARTMENT	PO BOX 393	EITZEN	55931
ELBOW LAKE FIRE DEPT	P O BOX 464	ELBOW LAKE	56531
* ELBOW-TULABY LAKES FIRE DEPT	39828 STATE HWY 113	WAUBUN	56589
ELGIN FIRE DEPARTMENT	135 E MAIN ST	ELGIN	55932
* ELIZABETH FIRE DEPT	BOX 805	ELIZABETH	56533
* ELK RIVER FIRE DEPT	415 JACKSON AVE	ELK RIVER	55330
ELLENDALE VOL FIRE DEPT	PO BOX 97	ELLENDALE	56026
* ELLSBURG VOL FIRE DEPT	1102 MINK RD	COTTON	55724
ELLSWORTH FIRE DEPT	306 N MAPLE, PO BX 177	ELLSWORTH	56129

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* ELMER FIRE DEPARTMENT	7882 ELMER ROAD	MEADOWLANDS	55785
ELMORE FIRE DEPARTMENT	PO BX 56, 202 S HWY 69	ELMORE	56027
* ELROSA FIRE DEPARTMENT	PO BX 160, 103 STATE ST	ELROSA	56325
* ELY FIRE DEPARTMENT	209 E CHAPMAN ST	ELY	55731
ELYSIAN FIRE DEPARTMENT	BOX 9	ELYSIAN	56028
EMBARRASS VOL FIRE DEPT	4868 HWY 21	EMBARRASS	55732
* EMILY VOLUNTEER FIRE DEPT	42145 BIRCHWOOD DRIVE	EMILY	56447
* EMMONS FIRE DEPARTMENT	P O BOX 21	EMMONS	56029
ERSKINE FIRE DEPARTMENT	PO BX 213, 102 GRANT AV	ERSKINE	56535
* EVANSVILLE FIRE DEPT	PO BOX 367	EVANSVILLE	56326
* EVELETH FIRE DEPARTMENT	413 PIERCE ST	EVELETH	55734
EVERGREEN FIRE DEPT	10233 HWY 65	BRITT	55710
* EXCELSIOR FIRE DEPT	24100 SMITHTOWN ROAD	SHOREWOOD	55331
EYOTA VOL FIRE DEPT.	PO BOX 915	EYOTA	55934
FAIRFAX FIRE DEPARTMENT	BOX 155	FAIRFAX	55332
* FAIRMONT FIRE DEPARTMENT	PO BOX 386	FAIRMONT	56031
* FALCON HEIGHTS FIRE DEPT	2077 W LARPEUR	FALCON HEIGHTS	55113
FARIBAULT FIRE DEPARTMENT	122 NW SECOND ST	FARIBAULT	55021
FARMINGTON FIRE DEPT	325 OAK ST	FARMINGTON	55024
FAYAL FIRE DEPARTMENT	4375 SHADY LN	EVELETH	55734
FEDERAL DAM FIRE DEPT	218 PINE STREET	FEDERAL DAM	56641
* FELTON COMMUNITY FIRE DEPT.	BOX 561	FELTON	56536
FERGUS FALLS FIRE DEPT	325 E WASHINGTON	FERGUS FALLS	56537
FERTILE FIRE DEPARTMENT	PO BX 142, 10 E MAIN	FERTILE	56540
FIFTY LAKES FIRE DEPT	PO BOX 127	FIFTY LAKES	56448
* FINLAND FIRE DEPARTMENT	BOX 555	FINLAND	55603
FINLAYSON FIRE DEPT	2208 FINLAND AVE	FINLAYSON	55735
* FISHER FIRE DEPARTMENT	P O BOX 167	FISHER	56723
FLENSBURG FIRE DEPT	53 MAIN ST, PO BOX 5	FLENSBURG	56328
* FLOODWOOD FIRE DEPT	BOX 348	FLOODWOOD	55736
FOLEY FIRE DEPARTMENT	BOX 709	FOLEY	56329
FORADA FIRE DEPARTMENT	1490 CR 4 SE	ALEXANDRIA	56308
FOREST LAKE FIRE DEPT	220 N LAKE ST	FOREST LAKE	55025
* FORESTON FIRE DEPART	176 DE CAMP ST	FORESTON	56330
* FOSSTON FIRE DEPARTMENT	114 N KAISER AVE	FOSSTON	56542
* FOUNTAIN FIRE DEPARTMENT	BOX 118	FOUNTAIN	55935
FOXHOME FIRE DEPARTMENT	BOX 54	FOXHOME	56543
FRANKLIN FIRE DEPARTMENT	BOX 279	FRANKLIN	55333
FRAZEE FIRE DEPARTMENT	PO BOX 413	FRAZEE	56544
FREDENBERG FIRE DEPT	6846 BERGSTRAND RD	DULUTH	55803
FREEBORN FIRE DEPT	402 PARK ST, PO BX 98	FREEBORN	56032
* FREEPORT FIRE DEPT	BOX 151	FREEPORT	56331
* FRENCH TWP VOL FIRE DEPT	P O BOX 41	SIDE LAKE	55781
* FRIDLEY FIRE DEPARTMENT	6431 UNIVERSITY AVE NE	FRIDLEY	55432
FROST FIRE DEPARTMENT	BOX 457	FROST	56033
FULDA FIRE DEPARTMENT	PO BOX 9	FULDA	56131
* GARFIELD FIRE DEPARTMENT	PO BX 24	GARFIELD	56332
GARRISON FIRE DEPARTMENT	P O BOX 367	GARRISON	56450
GARVIN FIRE DEPARTMENT	PO BOX 4	GARVIN	56132
GARY VOL FIRE DEPARTMENT	205 3RD ST	GARY	56545
* GAYLORD FIRE DEPARTMENT	BOX 685	GAYLORD	55334
* GENEVA FIRE DEPARTMENT	PO BOX 26	GENEVA	56035
GHENT FIRE DEPARTMENT	109 N CHAPMAN ST, PO BOX 253	GHENT	56239
* GIBBON FIRE DEPARTMENT	P O BOX 73	GIBBON	55335
GILBERT FIRE DEPARTMENT	PO BOX 878	GILBERT	55741
GLENCOE FIRE DEPARTMENT	509 10TH ST E	GLENCOE	55336
* GLENVILLE FIRE DEPARTMENT		GLENVILLE	56036
* GLENWOOD FIRE DEPT	137 E MINNESOTA AVE	GLENWOOD	56334
GLYNDON VOL FIRE DEPT	508 STATE ST NE, PO BX 68	GLYNDON	56547
GNESEN VOL FIRE DEPT	4504 DATKA ROAD	DULUTH	55803
* GOLDEN VALLEY FIRE DEPT	7800 GOLDEN VALLEY RD	GOLDEN VALLEY	55427
GONVICK FIRE DEPARTMENT	P O BOX 202	GONVICK	56644
GOOD THUNDER FIRE DEPT	BOX 345	GOOD THUNDER	56037
GOODHUE FIRE DEPT	708 3RD AVE	GOODHUE	55027
* GOODLAND FIRE DEPT	P O BOX 1	GOODLAND	55742
* GOODRIDGE AREA FIRE DEPT	P O BOX 162, 205 VAUGHN ST	GOODRIDGE	56725
GOODVIEW FIRE DEPT	4135 W 5TH ST	WINONA	55987
* GRACEVILLE FIRE DEPT	BOX 644	GRACEVILLE	56240
GRANADA FIRE DEPARTMENT	PO BOX 133	GRANADA	56039
GRAND LAKE VOL FIRE DEPT	PO BOX 1083	TWIG	55791
GRAND MARAIS VOL FIRE DEPT	P O BOX 600	GRAND MARAIS	55604
GRAND MEADOW FIRE DEPT	PO BOX 511	GRAND MEADOW	55936
GRAND PORTAGE FIRE DEPT		GRAND PORTAGE	55605
* GRAND RAPIDS FIRE DEPT	18 NE 5TH ST	GRAND RAPIDS	55744
GRANITE FALLS FIRE DEPT	PO BOX 201	GRANITE FALLS	56241
GREANEY-RAUCH-SILVERDALE FIRE DEPT	2436 HALVORSON RD	GHEEN	55771

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* GREEN ISLE FIRE DEPARTMENT	390 PARNELL ST, PO BX 235	GREEN ISLE	55338
* GREENBUSH FIRE DEPT	P O BOX 98	GREENBUSH	56726
GREENWOOD TWP VOL FIRE DEPT	4560 BRADLEY RD	TOWER	56790
* GREY EAGLE FIRE DEPT	202 S WOODMEN ST	GREY EAGLE	56336
* GROVE CITY FIRE DEPT	BOX 207	GROVE CITY	56243
GRYGLA FIRE DEPARTMENT	BOX 136	GRYGLA	56727
* GUNFLINT TRAIL VOL. FIRE DEPT.	468 CLEARWATER RD	GRAND MARAIS	56604
* HACKENSACK AREA FIRE DEPT	231 1ST ST N	HACKENSACK	56452
HALLOCK FIRE DEPARTMENT	BOX 847	HALLOCK	56728
HALSTAD FIRE DEPARTMENT	P O BOX 176	HALSTAD	56548
* HAM LAKE FIRE DEPARTMENT	15544 CENTRAL AVE NE	HAM LAKE	55304
* HAMBURG FIRE DEPARTMENT	181 BROADWAY AVE	HAMBURG	55339
* HAMEL FIRE DEPARTMENT	92 HAMEL RD	HAMEL	55340
HANCOCK FIRE DEPARTMENT	662 6TH ST	HANCOCK	56244
* HANGAARD TWP FIRE DEPT	12156 590TH ST	GONVICK	56644
HANLEY FALLS FIRE DEPT	PO BOX 57	HANLEY FALLS	56245
HANOVER FIRE DEPARTMENT	HANOVER CITY HLL, PO BX 278	HANOVER	55341
HANSKA FIRE DEPARTMENT	BOX 227	HANSKA	56041
* HARDWICK FIRE DEPARTMENT	RR 1	HARDWICK	56134
* HARMONY FIRE DEPARTMENT	PO BOX 344	HARMONY	55939
HARRIS FIRE DEPARTMENT	PO BOX 111	HARRIS	55032
* HARTLAND FIRE DEPARTMENT	407 S BROADWAY ST, PO BOX 487	HARTLAND	56042
* HASTINGS FIRE DEPARTMENT	115 W 5TH ST	HASTINGS	55033
* HAWLEY FIRE DEPARTMENT	PO BOX 981	HAWLEY	56549
HAYFIELD FIRE DEPARTMENT	BOX 493	HAYFIELD	55940
* HAYWARD FIRE DEPARTMENT	P O BOX 493	HAYWARD	56043
HECTOR FIRE DEPARTMENT	621 S MAIN ST, PO BX 284	HECTOR	55342
HENDERSON FIRE DEPT	P O BOX 85	HENDERSON	56044
HENDRICKS FIRE DEPT	BOX 82	HENDRICKS	56136
HENDRUM FIRE DEPARTMENT	PO BX 100, 308 MAIN ST E	HENDRUM	56550
HENNING VOL FIRE DEPT	607 2ND ST	HENNING	56551
* HERMAN VOL FIRE DEPT	PO BOX 203	HERMAN	56248
HERMANTOWN VOL FIRE DEPT	5255 MAPLE GROVE RD	HERMANTOWN	55811
HERON LAKE VOL FIRE DEPT	PO BOX 282	HERON LAKE	56137
* HEWITT FIRE DEPARTMENT	P O BOX 164	HEWITT	56453
* HIBBING FIRE DEPARTMENT	2320 BROOKLYN DR	HIBBING	55746
HIDDEN VALLEY FIRE DEPT	23 HIDDEN VALLEY RD	MINNESOTA CITY	55959
* HILL CITY FIRE DEPARTMENT	PO BX 168, 111 HENRIETTA AV SW	HILL CITY	55748
* HILLS FIRE DEPARTMENT	PO BOX 141	HILLS	56138
* HINCKLEY VOL FIRE DEPT	PO BOX 309	HINCKLEY	55037
* HITTERDAL FIRE DEPARTMENT	219 WEST FRONT	HITTERDAL	56552
HOFFMAN FIRE DEPARTMENT	110 1ST N, BOX 31	HOFFMAN	56339
HOKAH VOL FIRE DEPT	BOX 312	HOKAH	55941
* HOLDINGFORD FIRE DEPT	P O BOX 60	HOLDINGFORD	56340
* HOLLAND FIRE DEPARTMENT	1318 161ST STREET	HOLLAND	56139
* HOLLANDALE FIRE DEPT	P O BOX 122	HOLLANDALE	56045
* HOPKINS FIRE DEPARTMENT	1010 1ST ST S	HOPKINS	55343
HOUSTON FIRE DEPARTMENT	105 W MAPLE ST	HOUSTON	55943
* HOVLAND FIRE DEPARTMENT	P O BOX 484	HOVLAND	55606
HOWARD LAKE FIRE DEPT	BOX 309	HOWARD LAKE	55349
* HOYT LAKES FIRE DEPT	CITY HALL	HOYT LAKES	55750
* HUGO FIRE DEPARTMENT	5323 140TH ST N	HUGO	55038
* HUTCHINSON FIRE DEPT	205 3RD AVE SE	HUTCHINSON	55350
* IDEAL TWP FIRE DEPT	8890 RUTTGER RD	PEQUOT LAKES	56472
* INDUSTRIAL VOL FIRE DEPT	7519 ALBERT RD	SAGINAW	56779
INTERNATIONAL FALLS FIRE DEPT	600 FOURTH STREET	INTERNATIONAL FALLS	56649
INVER GROVE HEIGHTS FIRE DEPT	7015 CLAYTON AVENUE E	INVER GROVE HTS	55076
IONA FIRE DEPARTMENT	PO BOX 114	IONA	56141
IRONTON FIRE DEPARTMENT	607 8TH AVE SW	IRONTON	56455
ISANTI FIRE DISTRICT	401 - 1ST AVE N	ISANTI	55040
* ISLE FIRE DEPARTMENT	PO BOX 427	ISLE	56342
* ITASCA TWP VOL FIRE DEPT	RT 2, BOX 344	SHEVLIN	56676
IVANHOE FIRE DEPARTMENT	PO BOX 10	IVANHOE	56142
* JACKSON FIRE DEPARTMENT	305 SHERIDAN ST, PO BX 242	JACKSON	56143
JACOBSON FIRE DEPT	PO BOX 603	JACOBSON	55752
JANESVILLE FIRE DEPT	PO BX 0, 101 N MOTT ST	JANESVILLE	56048
* JASPER FIRE DEPARTMENT	RR 2, BOX 213	JASPER	56144
* JEFFERS FIRE DEPARTMENT	P O BOX 198	JEFFERS	56145
JORDAN FIRE DEPARTMENT	210 E 1ST ST	JORDAN	55352
* KABETOGAMA FIRE DEPT	9843 GAMMA RD	RAY	56689
KANDIYOHI FIRE DEPARTMENT	PO BOX 142	KANDIYOHI	56251
KARLSTAD VOL FIRE DEPT	P O BOX 299	KARLSTAD	56732
KASOTA FIRE DEPARTMENT	200 N WEBSTER	KASOTA	56050
* KASSON FIRE DEPARTMENT	19 E MAIN ST, PO BX 85	KASSON	55944
KEEWATIN VOL FIRE DEPT	PO BOX 134	KEEWATIN	55753
KELLIHER VOL FIRE DEPT		KELLIHER	56650

FIREFIGHTING FOAM SURVEY MAILING LIST				
DEPARTMENT	ADDRESS	CITY	ZIP	
	KELLOGG FIRE DEPARTMENT	PO BOX 98	KELLOGG	55945
*	KELSEY VOL FIRE DEPT	9159 OAK RD	KELSEY	55724
	KENNEDY FIRE DEPARTMENT	BX 228, 101 N ATLANTIC AV	KENNEDY	56733
	KENNETH VOL FIRE DEPT	RR 1	KENNETH	56147
	KENSINGTON FIRE DEPT	BOX 196	KENSINGTON	56343
	KENYON FIRE DEPARTMENT	PO BOX 6	KENYON	55946
*	KERKHOVEN FIRE DEPT	202 N 9TH ST, BOX 116	KERKHOVEN	56252
	KERRICK FIRE DEPARTMENT	BOX 31	KERRICK	55756
*	KETTLE RIVER FIRE DEPT	CITY HALL, 3977 MAIN STREET	KETTLE RIVER	55757
	KIESTER FIRE DEPARTMENT		KIESTER	56051
	KILKENNY FIRE DEPARTMENT	P O BOX 116	KILKENNY	56052
	KIMBALL FIRE DEPARTMENT	BOX 121	KIMBALL	55353
*	KINNEY-GREAT SCOTT FIRE DEPT	BOX 337, MAIN ST	KINNEY	55758
*	LACRESCENT FIRE DEPT	315 MAIN ST, PO BX 142	LACRESCENT	55947
	LAFAYETTE FIRE DEPT	P O BOX 62	LAFAYETTE	56054
	LAKE BENTON FIRE DT	BOX 82, 110 E BENTON	LAKE BENTON	56149
	LAKE BRONSON FIRE DEPT	PO BOX 97	LAKE BRONSON	56734
	LAKE CITY FIRE DEPARTMENT	208 S HIGH ST	LAKE CITY	55041
	LAKE CRYSTAL FIRE DEPT	P O BOX 528	LAKE CRYSTAL	56055
*	LAKE ELMO FIRE DEPT	3800 LAVERNE	LAKE ELMO	55042
	LAKE GEORGE FIRE DEPT	BOX 1635	LAKE GEORGE	56458
	LAKE HENRY FIRE DEPT	32953 CARTWAY DRIVE	PAYNESVILLE	56362
	LAKE JOHANNA VOL FIRE DEPT	5545 LEXINGTON AVE N	SHOREVIEW	55126
	LAKE LILLIAN FIRE DEPT	111 SECOND ST	LAKE LILLIAN	56253
	LAKE PARK FIRE DEPT	PO BOX 239	LAKE PARK	56554
	LAKE WILSON FIRE DEPT	BOX 163	LAKE WILSON	56151
*	LAKEFIELD FIRE DEPARTMENT	P O BOX 127	LAKEFIELD	56150
	LAKELAND VOL FIRE DEPT	4667 VERMILION TRAIL	GILBERT	55741
	LAKEPORT FIRE DEPARTMENT	30056 354TH ST	LAPORTE	56461
	LAKEVILLE FIRE DEPARTMENT	20190 HOLYOKE AVE W	LAKEVILLE	55044
*	LAKEWOOD TWP FIRE DEPT	2627 CENTERLINE ROAD	DULUTH	55804
	LAMBERTON FIRE DEPT	PO BOX 457	LAMBERTON	56152
	LANCASTER FIRE DEPT	302 3RD ST E, RR 1, BX 42A	LANCASTER	56735
*	LANESBORO FIRE DEPT	BOX 210	LANESBORO	55949
*	LASALLE FIRE DEPARTMENT	P O BOX 151	LA SALLE	56056
*	LE CENTER FIRE DEPT	PO BOX 45	LE CENTER	56057
	LE ROY FIRE DEPARTMENT	P O BOX 296	LE ROY	55951
*	LEAF VALLEY TWP FIRE DEPT	66 KALPIN, 3661 LUCKY LN NW	MILTONA	56354
	LESTER PRAIRIE FIRE DEPT	P O BOX 146	LESTER PRAIRIE	55354
*	LESJEUR FIRE DEPARTMENT	203 S 2ND ST, PO BX 176	LESJEUR	56058
*	LEWISTON FIRE DEPARTMENT	PO BOX 636	LEWISTON	55952
	LEWISVILLE FIRE DEPT	P O BOX 334	LEWISVILLE	56080
*	LEXINGTON FIRE DEPARTMENT	9180 LEXINGTON AVE	LEXINGTON	55014
	LINDSTROM FIRE DEPT	PO BOX 501	LINDSTROM	55045
*	LINWOOD VOL FIRE DEPT	22817 TYPO CK DR NE	STACY	55079
*	LISMORE FIRE DEPARTMENT	P O BOX 188	LISMORE	56155
	LITCHFIELD FIRE DEPARTMENT	227 N RAMSEY	LITCHFIELD	55355
*	LITTLE CANADA FIRE DEPT	325 E LITTLE CANADA RD	LITTLE CANADA	55117
*	LITTLE FALLS FIRE DEPT	314 1ST ST NE	LITTLE FALLS	56345
*	LITTLEFORK FIRE DEPT	PO BOX 387	LITTLEFORK	56653
*	LOMAN RURAL FIRE DEPT	P O BOX 256	LOMAN	56654
	LONDON FIRE DEPARTMENT	11788 JAMES STREET	LONDON	56036
	LONG LAKE FIRE DEPT	1964 PARK AV, PO BX 606	LONG LAKE	55356
*	LONG PRAIRIE FIRE DEPT	615 LAKE ST S	LONG PRAIRIE	56347
*	LONGVILLE VOL FIRE DEPT	BOX 216	LONGVILLE	56655
*	LONSDALE FIRE DEPARTMENT	PO BX 329, 426 CO RD 4	LONSDALE	55046
*	LORETTO VOL FIRE DEPT	259 N MEDINA ST, BX 22	LORETTO	55357
*	LOUISBURG FIRE DEPT	RR 1, BOX 468	LOUISBURG	56256
	LOWER ST CROIX VALLEY FIRE DEPT	PO BOX 234	LAKELAND	55043
*	LOWRY FIRE DEPARTMENT	PO BOX 131	LOWRY	56349
	LUCAN FIRE DEPARTMENT	BOX 159	LUCAN	56255
*	LUTSEN TWP VOL FIRE DEPT	P O BOX 151	LUTSEN	55612
	LUVERNE FIRE DEPARTMENT	PO BOX 659	LUVERNE	56156
*	LYLE FIRE DEPARTMENT	PO BOX 64	LYLE	55953
	LYND FIRE DEPARTMENT	PO BOX 177	LYND	56157
	MABEL VOL FIRE DEPT		MABEL	55954
*	MADELIA FIRE DEPARTMENT	120 W MAIN ST	MADELIA	56062
	MADISON FIRE DEPARTMENT	404 6TH AVE	MADISON	56256
	MADISON LAKE FIRE DEPT	525 MAIN ST, PO BOX 295	MADISON LAKE	56063
	MAGNOLIA FIRE DEPARTMENT	P O BOX 98	MAGNOLIA	56158
*	MAHNOMEN FIRE DEPT	PO BOX 250	MAHNOMEN	56557
*	MAHTOMEDI FIRE DEPT	600 STILLWATER RD	MAHTOMEDI	55115
*	MAHTOWA FIRE DEPARTMENT	PO BOX 963	MAHTOWA	55707
*	MAKINEN FIRE DEPARTMENT	PO BOX 395	MAKINEN	55763
*	MANCHESTER FIRE DEPT	PO BOX 2	MANCHESTER	56064
*	MANKATO FIRE DEPARTMENT	710 FRONT ST	MANKATO	56001

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
MANTORVILLE FIRE DEPT	BOX 355	MANTORVILLE	55955
* MAPLE GROVE FIRE DEPT	12800 ARBOR LKS PKWY,PO BX 1180	MAPLE GROVE	55311
* MAPLE HILL FIRE DEPT	1469 GUNFLINT TRAIL	GRAND MARAIS	55604
MAPLE LAKE FIRE DEPT	P O BOX 331	MAPLE LAKE	55358
MAPLE PLAIN FIRE DEPT	P O BOX 97	MAPLE PLAIN	55359
MAPLETON FIRE DEPARTMENT		MAPLETON	56085
MAPLEVIEW FIRE DEPT	101 MAPLE	MAPLEVIEW	55912
MAPLEWOOD FIRE DEPT	1955 CLARENCE STREET	MAPLEWOOD	55109
* MARBLE FIRE DEPARTMENT	BOX 255	MARBLE	55784
MARIETTA FIRE DEPARTMENT	PO BOX 113	MARIETTA	56257
* MARINE ON ST CROIX FIRE DEPT	BOX 250	MARINE ON ST CRX	55047
* MARSHALL FIRE DEPARTMENT	PO BX 1232, 201 E SARATOGA	MARSHALL	56258
* MAYER FIRE DEPARTMENT	PO BOX 102	MAYER	55380
* MAYNARD FIRE DEPARTMENT	PO BOX 154	MAYNARD	56250
* MAZEPPA VOL. FIRE DEPT	PO BOX 73	MAZEPPA	55956
MC DAVITT FIRE DEPARTMENT	ROUTE 1	ZIM	55738
MC GREGOR VOL FIRE DEPT	BOX 24	MC GREGOR	55780
* MC KINLEY VOL FIRE DEPT	PO BOX D	MC KINLEY	55761
MCGRATH FIRE DEPARTMENT	209 MAIN STREET	MCGRATH	56350
MCINTOSH FIRE DEPARTMENT	PO BX 356, 100 2ND ST SW	MCINTOSH	56556
* MEADOWLANDS AREA VOL FIRE DEPT	9945 HWY 133, PO BX 146	MEADOWLANDS	55785
MEDFORD VOL FIRE DEPT	PO BX 206, 408 2ND AV SE	MEDFORD	55049
* MEDICINE LAKE FIRE DEPT	2 KAISER AVE	MEDICINE LAKE	55441
* MELROSE FIRE DEPARTMENT	225 E 1ST STREET N	MELROSE	56352
* MENAHA FIRE DEPARTMENT	P O BOX C	MENAHGA	56484
MENDOTA HEIGHTS FIRE DEPT.	1101 VICTORIA CURVE	MENDOTA HEIGHTS	55118
MENTOR FIRE DEPARTMENT	PO BX 155, 202 LINCOLN AV N	MENTOR	56736
* MIDDLE RIVER FIRE DEPT	BOX 2	MIDDLE RIVER	56737
MIESVILLE VOL FIRE DEPT	14115 240TH ST E	CANNON FALLS	55009
MILACA FIRE DEPARTMENT	255 FIRST STREET E	MILACA	56353
* MILAN FIRE DEPARTMENT	P O BOX 163	MILAN	56282
* MILLERVILLE FIRE DEPT	16560 COUNTY RD 156 NW	BRANDON	56315
MILROY FIRE DEPARTMENT	P O BOX 9	MILROY	56263
MILTONA FIRE DEPARTMENT	PO BOX 195	MILTONA	56354
* MINNEAPOLIS FIRE DEPT	RM 230 CITY HALL	MINNEAPOLIS	55415
* MINNEOTA FIRE DEPARTMENT	P O BOX 356	MINNEOTA	56284
* MINNESOTA CITY FIRE DEPT	PO BOX 71	MINNESOTA CITY	55959
MINNESOTA LAKE FIRE DEPT	RR 1, BOX 30	MINNESOTA LAKE	56088
* MINNETONKA FIRE DEPT	14550 MINNETONKA BLVD	MINNETONKA	55345
* MISSION TWP FIRE DEPT	STAR RT, PO BX 327	MERRIFIELD	56485
* MONTEVIDEO FIRE DEPT	P O BOX 517	MONTEVIDEO	56285
* MONTGOMERY FIRE DEPT	201 ASH AVE W	MONTGOMERY	56089
MONTECELLO FIRE DEPT	P O BOX 422	MONTECELLO	55362
* MONTROSE FIRE DEPT	311 BUFFALO AV, PO BX 25	MONTROSE	55363
* MOORHEAD FIRE DEPT	111 12TH ST N	MOORHEAD	56560
* MOOSE LAKE FIRE DEPT	600 HWY 73	MOOSE LAKE	55787
MORA FIRE DEPARTMENT	101 LAKE ST S	MORA	55051
* MORGAN FIRE DEPARTMENT	BOX 27	MORGAN	56266
MORRIS FIRE DEPARTMENT		MORRIS	56267
* MORRISTOWN FIRE DEPT	PO BOX 352	MORRISTOWN	55052
MORSE FALL LAKE FIRE DEPT.	PO BOX 660	ELY	55731
MORTON FIRE DEPARTMENT	P O BOX 338	MORTON	56270
* MOTLEY FIRE DEPARTMENT	PO BOX 66, 316 HWY 10 S	MOTLEY	56486
MOUND FIRE DEPARTMENT	2415 WILSHIRE BLVD	MOUND	55384
* MOUNTAIN IRON FIRE DEPT	BOX 533	MOUNTAIN IRON	55788
MOUNTAIN LAKE FIRE DEPT	PO BOX C	MOUNTAIN LAKE	56159
MURDOCK FIRE DEPARTMENT	300 FREDRICK ST	MURDOCK	56271
* MYRTLE FIRE DEPARTMENT		MYRTLE	56070
* NASHWAUK FIRE DEPT	131 4TH ST	NASHWAUK	55789
* NASSAU FIRE DEPARTMENT	MAIN STREET, BOX 191	NASSAU	56272
* NERSTRAND VOL FIRE DEPT	402 OSMUNDSON COURT	NERSTRAND	55033
* NEVIS FIRE DEPARTMENT	P O BOX 184	NEVIS	56467
NEW AUBURN FIRE DEPT	BOX 86, 350-10TH ST	NEW AUBURN	55366
* NEW BRIGHTON FIRE DEPT	785 OLD HWY 8 NW	NEW BRIGHTON	55112
NEW GERMANY FIRE DEPT	300 BROADWAY ST	NEW GERMANY	55367
NEW LONDON FIRE DEPT	PO BOX 335, MAIN ST	NEW LONDON	56273
NEW MARKET FIRE DEPT	601 E MAIN ST, PO BX 99	NEW MARKET	55054
* NEW MUNICH FIRE DEPT	BOX 27	NEW MUNICH	56356
* NEW PRAGUE FIRE DEPT	P O BOX 202	NEW PRAGUE	56071
* NEW RICHLAND FIRE DEPT	PO BOX 87	NEW RICHLAND	56072
NEW SCANDIA FIRE DEPT	14800 OAKHILL RD N	SCANDIA	55073
* NEW ULM FIRE DEPT	526 8TH ST N	NEW ULM	56073
* NEW YORK MILLS FIRE DEPT	PO BOX 172	NEW YORK MILLS	56567
* NEWFOLDEN FIRE DEPT	PO BOX 188	NEWFOLDEN	56738
* NEWPORT FIRE DEPARTMENT	155 - 20TH ST	NEWPORT	55055
NICOLLET FIRE DEPARTMENT	P O BOX 427	NICOLLET	56074

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
	NIELSVILLE FIRE DEPARTMENT	NIELSVILLE	56588
*	NISSWA FIRE DEPARTMENT	PO BOX 147	NISSWA 56488
	NODINE VOL FIRE DEPT	42774 CO RD 12	DAKOTA 55925
	NORMANNA VOL FIRE DEPT	3480 LADY NICOLE LANE	DULUTH 55803
	NORTH BRANCH FIRE DEPT	P O BOX 245	NORTH BRANCH 55056
*	NORTH MANKATO FIRE DEPT	PO BX 2055, 1001 BELGRADE AV	N MANKATO 56001
*	NORTH ST PAUL FIRE DEPT	2400 MARGARET STREET	NORTH ST PAUL 55109
	NORTH STAR TWP FIRE DEPT	7700 PEQUAYWAN LK RD	DULUTH 55803
	NORTHEAST SHERBURNE FIRE & RESCUE	12935 299TH AVE	PRINCETON 55371
*	NORTHFIELD FIRE DEPT	300 W 5TH ST	NORTHFIELD 55057
*	NORTHLAND FIRE DEPT	7271 HWY 53 S	CANYON 55717
	NORTHHOME FIRE DEPT	PO BOX 65	NORTHHOME 56661
*	NORTHROP FIRE DEPT	PO BOX 208	NORTHROP 56075
	NORTHWEST ANGLE FIRE DEPT	P O BOX 200	ANGLE INLET 56711
	NORWOOD-YOUNG AMERICA FIRE DEPT	PO BX 85, 327 W ELM ST	NORWOOD 55388
*	OAK GROVE FIRE DEPT	19900 NIGHTINGALE ST NW	OAK GROVE 55011
*	OAKDALE FIRE DEPARTMENT	6633 15TH ST N	OAKDALE 55128
*	ODESSA FIRE DEPARTMENT	PO BOX 121	ODESSA 56276
*	ODIN FIRE DEPARTMENT	P O BOX 33	ODIN 56160
	OGEMA FIRE DEPARTMENT	24225 350TH ST	OGEMA 56569
	OGILVIE FIRE DEPARTMENT	BOX 38	OGILVIE 56358
*	OKABENA FIRE DEPARTMENT	BOX 8	OKABENA 56161
	OKLEE FIRE DEPARTMENT	PO BX 190	OKLEE 56742
*	OLIVIA FIRE DEPARTMENT	1007 W LINCOLN	OLIVIA 56277
	ONAMIA FIRE DEPARTMENT	P O BOX 186	ONAMIA 56359
	ORMSBY FIRE DEPARTMENT	PO BOX 533	ORMSBY 56162
	ORONOCO FIRE DEPARTMENT	PO BOX 146	ORONOCO 55960
	ORR VOLUNTEER FIRE DEPT	PO BX 247, 4540 LAKE ST	ORR 55771
*	ORTONVILLE FIRE DEPT	BOX 324	ORTONVILLE 56278
	OSAKIS FIRE DEPARTMENT	P O BOX P	OSAKIS 56380
	OSLO FIRE DEPARTMENT	PO BOX 55	OSLO 56744
	OSSEO FIRE DEPARTMENT	415 CENTRAL AVE	OSSEO 55389
	OSTRANDER FIRE DEPT	PO BOX 51	OSTRANDER 55961
*	OTTERTAIL FIRE DEPARTMENT		OTTERTAIL 56571
	OWATONNA FIRE DEPT	107 W MAIN	OWATONNA 55080
*	PALISADE VOL FIRE DEPT	PO BOX 71	PALISADE 56489
*	PALO REGIONAL FIRE DEPT	4547 HWY 100	AURORA 55705
	PARK RAPIDS FIRE DEPT	BOX 73	PARK RAPIDS 56470
*	PARKERS PRAIRIE FIRE DEPT	PO BOX 70, 102 N OTTER AVE	PARKERS PRAIRIE 56361
*	PAYNESVILLE FIRE DEPT	BOX 34	PAYNESVILLE 56362
*	PELICAN RAPIDS VOLUNTEER FIRE DEPT	709 5TH STREET SE	PELICAN RAPIDS 56572
	PEMBERTON FIRE DEPT	PO BOX 7 OR 420 MAIN ST	PEMBERTON 56078
*	PENNOCK FIRE DEPARTMENT	P O BOX 265	PENNOCK 56279
	PEQUAYWAN LAKE AREA FIRE DEPT	8835 PEQUAYWAN LAKE RD	DULUTH 55803
*	PEQUOT LAKES FIRE DEPT	4639 COUNTY ROAD 11	PEQUOT LAKES 56472
*	PERCH LAKE VOL FIRE DEPT	2779 BIG LAKE RD	CLOQUET 55720
	PERHAM FIRE DEPARTMENT	525 WEST MAIN	PERHAM 56573
*	PERLEY-LEE TWP FIRE DEPT	PO BOX 432	PERLEY 56574
*	PICKWICK FIRE DEPARTMENT	24616 CO RD 7	WINONA 55987
*	PIERZ FIRE DEPARTMENT	P O BOX 340	PIERZ 56364
	PIKE-SANDY-BRITT FIRE DEPT	P O BOX 36	VIRGINIA 55792
*	PILLAGER AREA FIRE DEPT	P O BOX 208	PILLAGER 56473
*	PINE CITY FIRE DEPARTMENT	400 5TH STREET SE	PINE CITY 55083
	PINE ISLAND FIRE DEPT	PO BOX 489	PINE ISLAND 55963
*	PINE RIVER FIRE DEPT	P O BOX 444	PINE RIVER 56474
*	PIPESTONE FIRE DEPT	BX 474, 118 2ND AV NE	PIPESTONE 56164
*	PLAINVIEW FIRE DEPT	241 WEST BROADWAY	PLAINVIEW 55964
*	PLATO FIRE DEPARTMENT	PO BOX 147	PLATO 55370
	PLUMMER FIRE DEPARTMENT	BOX 25	PLUMMER 56748
	PLYMOUTH FIRE DEPARTMENT	3400 PLYMOUTH BLVD	PLYMOUTH 55447
*	PORTER FIRE DEPARTMENT	505 MAPLE, BOX 34	PORTER 56280
*	PRESTON FIRE DEPARTMENT	BOX 216	PRESTON 55965
	PRINCETON FIRE DEPT	206 LAGRANDE AVE	PRINCETON 55371
*	PRINSBURG FIRE DEPT	PO BOX 207	PRINSBURG 56281
*	PRIOR LAKE FIRE DEPT	16200 EAGLE CRK AV, PO BX 234	PRIOR LAKE 55372
*	PROCTOR FIRE DEPARTMENT	100 PIONK DRIVE	PROCTOR 55810
*	RAMSEY FIRE DEPARTMENT	7550 SUNWOOD DRIVE	RAMSEY 55303
*	RANDALL FIRE DEPARTMENT	105 MAPLEWOOD DR	RANDALL 56475
*	RANDOLPH-HAMPTON FIRE DEPT	4365 292ND ST E, PO BX 36	RANDOLPH 55085
	RAYMOND FIRE DEPARTMENT	PO BOX 196	RAYMOND 56282
	RED LAKE FALLS FIRE DEPT	PO BX 478	RED LAKE FALLS 56750
	RED LAKE-BUREAU OF INDIAN AFFAIRS FIRE DEPT	PO BOX 970	RED LAKE 56671
*	RED WING FIRE DEPARTMENT	420 PLUM ST	RED WING 55066
*	REDWOOD FALLS FIRE DEPT	900 S GOULD	REDWOOD FALLS 56283
*	REMER FIRE DEPARTMENT	PO BOX 162, MAIN ST	REMER 56672
	RENVILLE FIRE DEPARTMENT	PO BOX 621	RENVILLE 56284

FIREFIGHTING FOAM SURVEY MAILING LIST				
DEPARTMENT	ADDRESS	CITY	ZIP	
	RICE FIRE DEPARTMENT	P O BOX 22	RICE	56367
	RICE LAKE VOL FIRE DEPT	4051 MARTIN RD	DULUTH	55803
	RICHFIELD FIRE DEPARTMENT	6700 PORTLAND AVE	RICHFIELD	55423
	RICHMOND FIRE DEPARTMENT	45 HALL AVE, BOX 628	RICHMOND	56368
	RIDGEWAY COMMUNITY FIRE DEPT	RT 2, BOX 243E	WINONA	55987
*	ROBBINSDALE FIRE DEPT	4101 HUBBARD AVE N	ROBBINSDALE	55422
*	ROCHESTER FIRE DEPT	201 4TH ST SE, RM 10	ROCHESTER	55904
*	ROCHESTER-RURAL FIRE DEPT	201 4TH ST SE, RM 10	ROCHESTER	55904
	ROCKFORD FIRE DEPT	6031 MAIN ST	ROCKFORD	55373
	ROCKVILLE FIRE DEPARTMENT	PO BOX 165	ROCKVILLE	56369
	ROGERS FIRE DEPARTMENT	21201 MEMORIAL DRV	ROGERS	55374
*	ROLLINGSTONE FIRE DEPT	P O BOX 74	ROLLINGSTONE	55969
*	ROSE CREEK AREA FIRE DEPT	BOX 195	ROSE CREEK	55970
*	ROSEAU FIRE DEPARTMENT	108-3RD AV SW, BX 55	ROSEAU	56751
*	ROSEMOUNT FIRE DEPT	2875 145TH ST W	ROSEMOUNT	55088
*	ROSEVILLE FIRE DEPT	2660 CIVIC CTR DR	ROSEVILLE	55113
	ROTHSAY FIRE DEPARTMENT	108 2ND ST NW	ROTHSAY	56579
	ROUND LAKE FIRE DEPT	PO BX 22	ROUND LAKE	56167
*	ROYALTON FIRE DEPARTMENT	5 NORTH CEDAR ST	ROYALTON	56373
*	RUSH CITY FIRE DEPARTMENT	PO BOX 556	RUSH CITY	55089
*	RUSHFORD FIRE DEPT	P O BOX 576	RUSHFORD	55971
*	RUSHMORE FIRE DEPT	614 2ND ST	RUSHMORE	56168
*	RUSSELL FIRE DEPARTMENT	BOX 8	RUSSELL	56169
	RUTHTON FIRE DEPARTMENT	BOX 13	RUTHTON	56170
	SABIN-ELMWOOD FIRE DEPT	PO BOX 35	SABIN	56580
*	SACRED HEART FIRE DEPT	113 W MAPLE	SACRED HEART	56295
	SANBORN FIRE DEPARTMENT	BOX 5	SANBORN	56083
*	SANDSTONE VOL FIRE DEPT	BOX 277	SANDSTONE	55072
*	SARTELL LAKE SAUK FIRE DEPT	P O BOX 5	SARTELL	56377
*	SAUK CENTRE FIRE DEPT	320 OAK ST, SUITE-100	SAUK CENTRE	56378
*	SAUK RAPIDS FIRE DEPT	115 2ND AVE N	SAUK RAPIDS	56379
	SAVAGE FIRE DEPARTMENT	6000 MCCOLL DR	SAVAGE	55378
*	SCANDIA VALLEY FIRE DEPT	3518 320TH STREET	CUSHING	56443
*	SCANLON VOL FIRE DEPT	2801 DEWEY AVE	CLOQUET	55720
*	SCHROEDER FIRE DEPT	PO BOX 407	SCHROEDER	55613
*	SEAFORTH FIRE DEPARTMENT	BOX 22	SEAFORTH	56287
	SEBEKA FIRE DEPARTMENT	P O BOX 23	SEBEKA	56477
*	SEDAN FIRE DEPARTMENT	RR 4, BX 1194	GLENWOOD	56334
	SHAFFER FRANCONIA FIRE DEPT	PO BOX 219, 30325 REDWING AVE	SHAFFER	55074
	SHAKOPEE FIRE DEPT	129 S HOLMES ST	SHAKOPEE	55379
	SHAKOPEE MDEWAKANTON SIOUX COMM FIRE DEPT	2330 SIOUX TRAIL NW	PRIOR LAKE	55372
	SHELLY FIRE DEPARTMENT	PO BOX 158	SHELLY	56581
*	SHERBURN FIRE DEPARTMENT	19 E 1ST ST, PO BX 730	SHERBURN	56171
	SHEVLIN FIRE DEPARTMENT	BOX 5	SHEVLIN	56676
*	SILICA AREA FIRE DEPT	PO BOX 338	HIBBING	55746
*	SILVER BAY FIRE DEPT	CITY HALL	SILVER BAY	55614
*	SILVER LAKE FIRE DEPT	308 W MAIN, PO BX 141	SILVER LAKE	55381
*	SKYLINE FIRE DEPARTMENT	23 SKYLINE DR	MANKATO	56001
	SLAYTON FIRE DEPARTMENT	BOX 3	SLAYTON	56172
*	SLEEPY EYE FIRE DEPT	123 2ND AVE	SLEEPY EYE	56085
*	SOLWAY FIRE DEPARTMENT	BOX 8	SOLWAY	56678
*	SOLWAY TWP FIRE DEPT	4027 MUNGER SHAW RD	CLOQUET	55720
*	SOUTH BEND FIRE DEPT	116 N STURGIS	MANKATO	56001
*	SOUTH HAVEN FIRE DEPT	PO BX 97, 640 OAK AV	SOUTH HAVEN	55382
	SOUTH ST PAUL FIRE DEPT	310 MARIE AVE	SOUTH ST PAUL	55075
*	SPICER FIRE DEPARTMENT	160 HWY 23 N, BOX 931	SPICER	56288
*	SPRING GROVE FIRE DEPT	P O BOX 614	SPRING GROVE	55974
*	SPRING LAKE PARK FIRE DEPT	1710 HWY 10	SPRING LAKE PARK	55432
	SPRING VALLEY FIRE DEPT	201 S BROADWAY STREET	SPRING VALLEY	55975
	SPRINGFIELD VOL FIRE DEPT	PO BX 17, 24 N SPRING AV	SPRINGFIELD	56087
	SQUAW LAKE FIRE DEPT	51296 STATE HIGHWAY 46	SQUAW LAKE	56681
*	ST ANTHONY FIRE DEPT	3505 SILVER LAKE RD NE	ST ANTHONY	55418
*	ST BONIFACIUS FIRE DEPT	8535 KENNEDY MEMORIAL DRIVE	ST BONIFACIUS	55375
*	ST CHARLES FIRE DEPT	830 WHITEWATER AVE	ST CHARLES	55972
*	ST CLAIR FIRE DEPARTMENT	BOX 185	ST CLAIR	56090
*	ST CLOUD FIRE DEPARTMENT	101 10TH AVE N	ST CLOUD	56303
*	ST FRANCIS FIRE DEPT	PO BOX 730	ST FRANCIS	55070
	ST HILAIRE FIRE DEPARTMENT	PO BOX 253	ST HILAIRE	56754
*	ST JAMES FIRE DEPARTMENT	315 11TH ST S	ST JAMES	56081
*	ST JOHN'S UNIVERSITY FIRE DEPT	ST JOHN'S ABBEY	COLLEGEVILLE	56321
*	ST JOSEPH VOL FIRE DEPT	P O BOX 4	ST JOSEPH	56374
*	ST LEO FIRE DEPARTMENT	205 N MAIN ST	ST LEO	56286
*	ST LOUIS PARK FIRE DEPT	5005 MINNETONKA BLVD	ST LOUIS PARK	55416
*	ST MARTIN FIRE DEPT	BOX 294	ST MARTIN	56376
*	ST MICHAEL FIRE DEPT	216 MAIN ST	ST MICHAEL	55376
*	ST PAUL FIRE DEPARTMENT	100 E 11TH ST	ST PAUL	55101

FIREFIGHTING FOAM SURVEY MAILING LIST			
DEPARTMENT	ADDRESS	CITY	ZIP
* ST PAUL PARK VOL FIRE DEPT	600 PORTLAND AV	ST PAUL PARK	55071
* ST PETER FIRE DEPARTMENT	227 W MULBERRY ST	ST PETER	56082
* ST STEPHEN FIRE DEPT	2 6TH AVE SE	ST STEPHEN	56375
* STACY-LENT FIRE DEPT	566D STACY TRAIL, PO BX 123	STACY	55079
* STAPLES FIRE DEPARTMENT	GOVERNMENT CTR, 611 IOWA AV	STAPLES	56479
STARBUCK FIRE DEPARTMENT	208 MAIN ST, PO BX 747	STARBUCK	56381
STEPHEN FIRE DEPARTMENT	PO BOX 525	STEPHEN	56757
* STEWART FIRE DEPARTMENT	P O BOX 127	STEWART	55385
* STEWARTVILLE FIRE DEPT	417 SOUTH MAIN	STEWARTVILLE	55976
* STILLWATER FIRE DEPT	216 N 4TH ST	STILLWATER	55082
STORDEN FIRE DEPARTMENT	BOX 84	STORDEN	56174
STURGEON LAKE FIRE DEPT	RR 1, P O BOX 98	STURGEON LAKE	55783
* SUNBURG FIRE DEPARTMENT	210 CENTRAL AV, PO BX 41	SUNBURG	56289
* SWANVILLE FIRE DEPT	P O BOX 252	SWANVILLE	56382
* TACONITE FIRE DEPARTMENT	PO BOX 116	TACONITE	55786
* TAUNTON FIRE DEPARTMENT	301 N LINCOLN ST	TAUNTON	56291
* TAYLOR FALLS FIRE DEPT	ATTN: TIM RIVARD, 637 FIRST ST	TAYLORS FALLS	55084
* THIEF RIVER FALLS FIRE DEPT	320 E 2ND ST	THIEF RIVER FALLS	56701
* THOMPSON TWP FIRE DEPT	BOX 122	ESKO	55733
* TINTAH FIRE DEPARTMENT	207 ASH ST, BOX 122	TINTAH	56583
* TOFTE FIRE DEPARTMENT	BOX 2111	TOFTE	55615
TOIVOLA TWP FIRE DEPT	9094 HWY 5	TOIVOLA	55765
* TOWER FIRE DEPARTMENT	PO BOX 576	TOWER	55790
* TRACY FIRE DEPARTMENT	231 SECOND	TRACY	56175
TRIMONT FIRE DEPARTMENT	PO BOX N	TRIMONT	56176
TRUMAN FIRE DEPARTMENT	BOX 393	TRUMAN	56038
TWIN LAKES FIRE DEPT	101 W MAIN ST	TWIN LAKES	56089
* TWIN LAKES VO FIRE DEPT	PO BOX 27	NAY-TAH-WAUSH	56566
* TWIN VALLEY FIRE DEPT	PO BX 425, HWY 32 SO	TWIN VALLEY	56584
TWO HARBORS FIRE DEPT	522 1ST AVE	TWO HARBORS	55616
* TYLER FIRE DEPARTMENT		TYLER	56178
* ULEN FIRE DEPARTMENT	BOX 121	ULEN	56585
* UNDERWOOD FIRE DEPT	PO BOX 24	UNDERWOOD	56586
* UPSALA FIRE DEPARTMENT	PO BX 164	UPSALA	56384
* VADNAIS HEIGHTS FIRE DEPT	3595 ARCADE ST	VADNAIS HEIGHTS	55127
* VERGAS FIRE DEPARTMENT	P O BOX 98, 120 W LINDEN ST	VERGAS	56587
* VERMILLION LAKE FIRE DEPT	9388 HOLTER RD	TOWER	55790
* VERNDALE FIRE DEPT	101 S BROWN ST, PO BOX 156	VERNDAL	56481
VERNON CENTER FIRE DEPT	PO BX 365, 200 MAIN ST W	VERNON CENTER	56090
VESTA FIRE DEPARTMENT	BOX 149	VESTA	56292
VICTORIA FIRE DEPARTMENT	1500 80TH STREET	VICTORIA	55386
* VIKING FIRE DEPARTMENT	406 MAIN ST N, PO BOX 97	VIKING	56780
* VILLARD VOL FIRE DEPT	P O BOX 123	VILLARD	56385
VINING FIRE DEPARTMENT		VINING	56588
* VIRGINIA FIRE DEPARTMENT	115 N 4TH AVE	VIRGINIA	55792
WABASHA FIRE DEPARTMENT	900 HIAWATHA DR E	WABASHA	55981
WABASSO VOL FIRE DEPT	BOX 172	WABASSO	56293
* WACONIA FIRE DEPARTMENT	26 S MAPLE ST	WACONIA	55387
WADENA FIRE DEPARTMENT	PO BOX 30	WADENA	56482
* WAITE PARK FIRE DEPT	19-13TH AV N PO BX 339	WAITE PARK	56387
* WALDORF FIRE DEPARTMENT	PO BOX 8	WALDORF	56091
WALKER FIRE DEPARTMENT	PO BOX 207	WALKER	56484
WALNUT GROVE FIRE DEPT	330 7TH ST	WALNUT GROVE	56180
* WALTERS VOL FIRE DEPT	PO BOX 56	WALTERS	56092
* WANAMINGO FIRE DEPT	P O BOX 304	WANAMINGO	55983
* WANDA FIRE DEPARTMENT	PO BOX 251	WANDA	56294
* WARBA-FEELEY-SAGO FIRE DEPT	BOX 2761	WARBA	55793
* WARREN FIRE DEPARTMENT	731 N 1ST ST	WARREN	56762
WARROAD FIRE DEPARTMENT	PO BOX 50	WARROAD	56763
* WASECA FIRE DEPARTMENT	117 2ND AVE SE	WASECA	56093
* WATERTOWN FIRE DEPT	401 CARTER ST NE, PO BX 755	WATERTOWN	55388
WATERVILLE FIRE DEPT	110 N 1ST STREET	WATERVILLE	56096
* WATKINS FIRE DEPARTMENT	BOX 408	WATKINS	55389
WATSON FIRE DEPARTMENT	BOX 160	WATSON	56295
WAUBUN FIRE DEPARTMENT	BOX 151	WAUBUN	56589
WAVERLY FIRE DEPARTMENT	PO BOX 8	WAVERLY	55390
* WAYZATA FIRE DEPARTMENT	600 E RICE ST	WAYZATA	55391
* WELCOME FIRE DEPARTMENT	PO BOX 373	WELCOME	56181
WELLS FIRE DEPARTMENT	180 3RD ST SE	WELLS	56097
WENDELL FIRE DEPARTMENT	27895 250TH AVE	WENDELL	56590
WEST CONCORD FIRE DEPT	P O BOX 586	WEST CONCORD	55985
* WEST METRO FIRE-RESCUE DISTRICT	4251 XYLON AVE N	NEW HOPE	55428
WEST ST PAUL FIRE DEPT	1616 HUMBOLDT AVE	WEST ST PAUL	55118
WESTBROOK FIRE DEPT	BOX 261	WESTBROOK	56183
* WHEATON FIRE DEPARTMENT	905 BROADWAY, PO BOX 83	WHEATON	56296
* WHITE BEAR LAKE FIRE DEPT	4700 MILLER AVE	WHITE BEAR LAKE	55110

FIREFIGHTING FOAM SURVEY MAILING LIST				
DEPARTMENT	ADDRESS	CITY	ZIP	
	WHITE EARTH VOL FIRE DEPT	PO BOX 418	WHITE EARTH	56591
*	WILLIAMS FIRE DEPARTMENT	P O BOX 624	WILLIAMS	56686
*	WILLMAR FIRE DEPARTMENT	515 SW 2ND ST	WILLMAR	56201
	WILLOW RIVER FIRE DEPT	8099 CO HWY 61, PO BOX 125	WILLOW RIVER	55795
	WILMONT FIRE DEPARTMENT	304 4TH AVE, PO BOX 182	WILMONT	56185
*	WILSON VOL FIRE DEPT	RR 2, BOX 243B	WINONA	55987
	WINDOM FIRE DEPARTMENT	444 - 9TH ST	WINDOM	56101
	WINGER FIRE DEPARTMENT	PO BOX 168	WINGER	56592
	WINNEBAGO VOL FIRE DEPT	CITY HALL, PO BX 386	WINNEBAGO	56098
*	WINONA FIRE DEPARTMENT	451 E 3RD ST	WINONA	55987
*	WINSTED FIRE DEPARTMENT	PO BX 298, 241 1ST ST N	WINSTED	55395
	WINTHROP VOL FIRE DEPT	BX 407, 3 N MAIN ST	WINTHROP	55396
*	WOLF LAKE FIRE DEPT	P O BOX 1	WOLF LAKE	56593
	WOLVERTON FIRE DEPT	BOX 7	WOLVERTON	56594
	WOODBURY FIRE DEPT	2100 RADIO DR	WOODBURY	55125
	WOODLAKE FIRE DEPT	79 3RD AVE	WOODLAKE	56297
	WOODSTOCK FIRE DEPT	P O BOX 67	WOODSTOCK	56186
	WORTHINGTON FIRE DEPT	P O BOX 151	WORTHINGTON	56187
*	WRENSHALL FIRE DEPT		WRENSHALL	55797
	WRIGHT VOL FIRE DEPT	1447 COSTELLO RD	WRIGHT	55798
	WYKOFF FIRE DEPARTMENT	114 FILLMORE ST, BX 186	WYKOFF	55990
*	WYOMING FIRE DEPARTMENT	26885 FOREST BLVD, BX 188	WYOMING	55092
*	ZIMMERMAN FIRE DEPT	13028 FREEMONT AV	ZIMMERMAN	55398
*	ZUMBRO FALLS FIRE DEPT	PO BOX 119	ZUMBRO FALLS	55991
*	ZUMBROTA VOL FIRE DEPT	PO BOX 206	ZUMBROTA	55992
*	Questionnaire completed and returned.			

FIREFIGHTING FOAM SURVEY MAILING LIST					
NAME	TITLE	DEPARTMENT	ADDRESS	CITY	ZIP
* Don Beckering	State Director of Fire Training	MNSCU Fire Center	30 7th Street East, #350	St. Paul	55101
* Marty Christensen	Fire Training Program	Itasca Community College	1851 E. Highway 169	Grand Rapids	55744
* Sandy Larson (Scott Schaefer)	Fire Programs Manager	Alexandria Technical College	1601 Jefferson Street	Alexandria	56308
Larry Rieber	Fire Programs Manager	St. Cloud Technical College	1540 Northway Drive	St. Cloud	56303
* Daryl Bartholomaus	Fire Programs Manager	Minnesota West Comm Coll	607 W. Main Street, #100	Marshall	56258
* Mike Roe	Fire Programs Manager	Ridgewater College	2101 NW 15th Ave.	Willmar	56201
* Tim Zehnder	Fire Training Program	South Central College	1920 Lee Blvd.	North Mankato	56003
* Brian Staska	Fire Programs Manager	Riverland Community College	1900 8th Ave. NW	Austin	55912
* Mike Anderson	Fire Training Program	Pine Technical College	900 4th Street SE	Pine City	55063
* Todd Seitz	Fire Training Coordinator	Hennepin Technical College	1820 Xenium Lane N.	Plymouth	55441
Dave Klocek	Fire Training Program	Hennepin Technical College	13100 College View Dr.	Eden Prairie	55347
* Dr. Lori Wynia	Business & Public Affairs	Southwest State University	1501 State Street	Marshall	56258
Jeff Voight	Fire Technology Instructor	Northland Comm College	2022 Central Ave NE	East Grand Forks	56721
* Rick Besser	Fire Training Program	Northland Comm College	1101 Highway 1 East	Thief River Falls	56701
Rebecca Best	Assoc. V.P., Academic Aff.	Central Lakes College	501 W. College Drive	Brainerd	56401
Rick Loveland	Fire Training Program	Minn State Comm College	2900 28th Ave. S.	Moorhead	56560
* Steve Flaherty	Fire Programs Manager	Mesabi Range Comm College	1001 Chestnut Street	Virginia	55792
* Dave Sarazin		Lake Superior Tech College	11501 Highway 23	Duluth	55808
* Fire Chief Dane Lund	Fire Department	Rochester Intl Airport	1500 Helgerson Dr. SW	Rochester	55901
* Fire Chief	St. Cloud Airport	o/c Fire Station No. 3	1201 Michigan Ave. SE	St. Cloud	56304
* Toni Howell	Mgr. of Environmental Aff.	MAC	thowell@msspmac.org	Minneapolis	
* Steve Crisp	Fire Chief	Marathon Petroleum Corp.	slcrisp@marathonoil.com	St. Paul Park	
* Pete Herpst	Fire Chief	Flint Hills Refinery	pete.herpst@fhr.com	Rosemount	
* Questionnaire completed and returned.					

APPENDIX C

Questionnaires from Municipal Fire Departments
(provided on compact disc)



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821087

2222.0130



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2009 in the enclosed stamped, self-addressed envelope.

Questionnaire Completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Semi-Annually
- Weekly
- Annually
- Monthly
- Bi-Annually
- Quarterly
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

8th St W. ADA on Street & W Ditch

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	SILV-EX	Y	30 gal	Y	Y
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN PETRY FIRE CHIEF

Name and Title

AAA

Fire Department

218-784-5528

Phone Number

5-2808

Date

stevepetry@yahoo.com

E-Mail Address

Inogen
a member of Environmental Liberty

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Station Adams Minn 55909
Main St East side of town

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>Yes</u>	<u>25gal</u>	<u>0</u>	<u>30gal</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Peter Schmitz Fire Chief

Name and Title

Adams Fire

Fire Department

507-438-1134 6-6-08

Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): never

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	no	85 gallons	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	no	15 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tony Parsley Fire Chief
Name and Title

Adrian Fire Department
Fire Department

(507) 483-2975
Phone Number

4/30/08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

109 FIRST STREET NW (FIRE STATION)

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	NO	NO
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	NO	}
Class B Protein	_____	_____	_____	NO	
Class B Fluoroprotein (FP)	_____	_____	_____	NO	
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	NO	
Class B AR-FFFP	_____	_____	_____	_____	
Class A-B Hi Expansion Foam	_____	_____	_____	NO	
Class A	Silvix	YES	1 gallon	YES	YES
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Pismrek - Chief

Name and Title

A.H.K.W.

Fire Department

210-927-7508

Phone Number

5/29/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): RARELY

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

~~2898~~ 28987 ALASKA LN NW PUPISKY MN
FIRE HALL



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	SILV-EX	yes	1 gal.	Historic
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK PARROT CHIEF

Name and Title

ALASKA VOLUNTEER FIRE DEPT.

Fire Department

218 243 2785

Phone Number

5/6/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Parking lot at 30 Forest Ave

In 2007 we used about 35 gallons of foam total for fires and training.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Angus Forexpan 5</u>	<u>Yes</u>	<u>5-10 gallons for training</u>	<u>Auto Fire's Structure Fires</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DEAN MITCHELL FILE CHIEF
Name and Title

Albany Fire Dept
Fire Department

320-250-2108 4-28-08
Phone Number Date

albanyfire@albanytel.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

A Training area off of Frank ave near
our dog pound.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANSULITE			
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	YES	15-20g (depending)	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	No	40g roughly	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CAPTAIN JAMES BERG

Name and Title

ALBERT LEA FIRE DEPT

Fire Department

(507) 377-4340 APRIL 29, 2008

Phone Number

Date

alfire@city.albertlea.org

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Frank Hall Dr. Albert Lee

Old Sewage treatment Plant





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silver	yes	1-2gal	Current
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Shellen Fire Chief
Name and Title

Albert Lea Township PD
Fire Department

507/377-5734
Phone Number

4/29/08
Date

bob.shellen@streater.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Albertville Fire Hall 11350 57th St NE Albertville, MN 55301





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS	Yes	5-10 gallons	both
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tate Mills Fire Chief
Name and Title

Albertville Fire Department
Fire Department

(C) 612-685-6383 (W) 763-497-4836
Phone Number Date

zafelchief1@ci.albertville.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

MAIN ST, ALPHA

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>SILVOX</u>	<u>yes</u>	<u>2 gal</u>	<u>0</u>	<u>15 gal</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Ingebrigtsen Fire Chief
Name and Title

ALPHA Fire Dept
Fire Department

507 847-3557 5/28/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): VERY SELDOM, EVER 3 OR 4 YEARS

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

UNKNOWN, I WAS NOT HERE THE LAST TIME WE TRAINED WITH FOAM





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-EX	NO	50 Gal	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CHARLES THOMPSON

Name and Title

ANOKA - Champlin FIRE DEPARTMENT

Fire Department

763-576-2861

Phone Number

Date

1 May 2008

E-Mail Address

C THOMPSON @ Ci. ANOKA . MN . US



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Apple Valley Fire Station #1
15000 Hayes Road, Apple Valley, MN 55124
Apple Valley Central Maintenance Facility

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	YES	3	NO	YES
Class B Alcohol-Resistant (AR)-AFFF	ANGUS TRIDENT	YES	15 gallons	YES	YES
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A Training Foam	ANGUS Hi-Combat A	YES	10 gallons	YES	YES
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

NEALON THOMPSON, Deputy Chief

Name and Title

Apple Valley Fire

Fire Department

952-953-2600

Phone Number

June 6, 2008

Date

nthompson@ci.applevalley.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

South of City of Appleton Public works Bldg.
427 S. Munsterman St. Appleton, MN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Did not use foam during training, budget issue.

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Chemguard</u>	<u>No</u>	<u>50 gallons</u>	_____	<u>50 gallons</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Ott Fire Chief
Name and Title

Arlington Fire Dept
Fire Department

507-964-2279 5-30-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

At the firehall at 9798 Hwy 2 Brookston mn 55711

OVER ->



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>Siv-ex</i>	<i>yes</i>	<i>less than 5 gal</i>	<i>yes</i>	<i>yes</i>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gerald Wilton *Fire chief*
Name and Title

Arrowhead Fire Department
Fire Department

218 879-6916 *6/2/08*
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	SILV-EX	Yes	20	Historic
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK ZLOTNICK - CHIEF

Name and Title

Ashby Fire Dept

Fire Department

218-747-2214

Phone Number

Date

ashbyfire@yahoo.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Pete WATRIN Fire Chief
Name and Title

ASKOV F.D.
Fire Department

320-838-3616 5/13/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Never have used Foam for training.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Silvex</u>	<u>No</u>	<u>20 gal. avg.</u>	<u>Both</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Lakso, Assistant Chief
Name and Title

Aurora Fire Department
Fire Department

218-229-3776 4/29/08
Phone Number Date

jlakso@frontiernet.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- Class A* 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

** Foam Pro - proportioner with A-B tank*

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
- Semi-Annually Annually Bi-Annually
- Other (please specify): *3M Training Foam Only*

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
- Other (please describe): *Training Foam Only*

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Marcusen Park - South Main Street - Austin MN 55912





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	<i>3M</i>	<i>NO</i>		<i>Have not used B Foam in 10yrs.</i>
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	<i>Silvex</i>	<i>NO</i>	<i>20gal</i>	<i>Rural Structure Fires Only</i>
Training Foam	<i>3-M</i>	<i>YES</i>	<i>1gal concentrated</i>	<i>mixed with water</i>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jan Wilson *Fire Chief*

Name and Title

Austin Minnesota

Fire Department

507-433-3405 *April 28-08*

Phone Number Date

dwilson@ci.austin.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually X Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Rd 155 + Angelfish Road
In the City of Avon



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	Yes	5 gal (TRAINING)	35 gal (FIRE)
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Eric Cinn Christ

Name and Title

AVON FIRE DEPT.

Fire Department

320-250-6195 4-30-08

Phone Number

Date

eric@jelinn.clearwire.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

34 North Dr Babbitt MN 55706



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	<i>Ansulite</i>	<i>NO</i>	<i>0-5 gallons</i>	<i>Current; if needed</i>
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	<i>SiN-exp</i>	<i>Yes</i>	<i>5-10 gallons</i>	<i>Current/part</i>
Class A Training Foam	<i>Ansulite</i>	<i>Yes</i>	<i>0-5 gallons</i>	<i>Current</i>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ryan Scharber Fire Chief

Name and Title

Babbitt Fire Department

Fire Department

218 827 2611 *5-6-08*

Phone Number Date

babbittfd@fantinet.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): only at fires

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): None

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex (Ansul)	No	55 gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard V. Ktorza (Chief)
 Name and Title
 Bagley Fire Dept
 Fire Department
 218-694-4217 work
 Phone Number
 4-29-08
 Date

E-Mail Address _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): GRASS FIELD

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

THE CITY BURN SITE

SE Corner of town end of Lake Street





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	10 GALS	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3M	NO	10 GALS	
Training Foam	3M	YES	5 GALS	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DARRELL CRUMAINE FIRE CHIEF
Name and Title

BALATON FIRE DEPT.
Fire Department

1-509-530-6218
Phone Number

5/06/08
Date

SPARKY60@FRONTIERNET.NET
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

AT FIRE HALL 41362 SCOMIE HWY BOJBY MN. 55709

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>Yes</u>	<u>15 gallons</u>	<u>Yes</u>	<u>Yes</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TROY BARNER FIRE CHIEF

Name and Title

BALSAM VOL. FIRE DEPT.

Fire Department

218-245-2642 5-30-08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*File Hill Park Lot + Surrounding
Backstop. sheds to grass*

*3842 Church St
Barrow*



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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	Hi-Compat A-Angus	Yes	5gal	Always
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Corey Hurst
Name and Title

Fire Chief, Barnum F.D.
Fire Department

218-428-8354 5-13-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- ~~Bi-Annually~~
- Other (please specify): When we get new members on

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

BATTLE LAKE AIRPORT





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-ex	YES	1/2 gallon	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Duane Brown Chief

Name and Title

BATTLE LAKE

Fire Department

218-864-5511

Phone Number

4/28/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

1ST AVE SW & 1ST AVE SW ONCE 5 YRS AGO
DIFFERENT LOCATIONS DURING LIVE FIRE TRAINING





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILVEX	Y	25 GAL	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID GABBELS CHIEF

Name and Title

BAUPELLE FIRE/RESCUE

Fire Department

218 634 1513

Phone Number

4-28-08

Date

BFD @ WIKTEC.COM

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Lessman -
Name and Title
Bear Creek Fire Control
Fire Department
218-657-2900 5/30/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

It's in different places everytime.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silo-ex	Yes	5gals	Current Use
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kenneth Hendricks Chief
Name and Title

Beardsley Fire Dept
Fire Department

320-265-6317 5/7/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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STATE_02821147

2222.0190



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Daryl Fuerstenberg Assistant Chief
Name and Title

Beaver Creek
Fire Department

(507) 673-2266 = city clerk 05-07-08
Phone Number Date

N/A
E-Mail Address



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Silv-ex</u>	<u>No</u>	<u>50 gallons average per year</u>	
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

~~Belgrade Fire~~ Bob Dickhoff Cheif

Name and Title

Belgrade Fire/Rescue

Fire Department

320-254- 5-5-08

Phone Number

Date

belfiredept@yahoo.com

E-Mail Address



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE DEPT PARKING LOT - CAR FOAMED THEN THE CAR WENT TO SALVAGE YARD.

BELLINGHAM FARMERS ELEVATOR - FOAMED A PILE OF WOOD PALLETS THAT WERE THEN DISCARDED

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Last time we used it was about 5 yrs ago

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

EGE Tech

Right at Fire Dept - grounds

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies, but usually within city limits of Belview





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF		NO	5 gal.	Both
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam		NO	5 gal.	Both
Class A Training Foam	Dawn Dishwashing Soap	Yes	1/2 gallon	Both
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Preuss Fire chief

Name and Title

Belview

Fire Department

507-938-4335

Phone Number

Belview@MUTV Wireless.com

E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

_____ Yes

No

4. How often is foam used in training exercises?

_____ Weekly _____ Monthly _____ Quarterly
_____ Semi-Annually Annually _____ Bi-Annually
_____ Other (please specify): _____

5. How much foam is used per training event?

_____ Less than 5 gallons _____ 5 gallons 5 to 10 gallons
_____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

_____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic Ground
_____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Bemidji Airport - Class B
Railroad St - Class A



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Light Water</u>	<u>YES</u>	<u>≈ 5 gal</u>	<u>Current</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>Yes</u>	<u>15 gal.</u>	<u>Current</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dick Sathers Chief

Name and Title

Bemidji

Fire Department

218-751-8001 5-8-08

Phone Number Date

E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	3-M	No	5 gal	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Siloex	yes	15 gal	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Schreck Chief
Name and Title

Benson Fire Dept
Fire Department

320-643-3916 5/6/08
Phone Number Date

bensonbodyshop@hotmail.com
E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

at firehall

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<u>Ansulite</u>	<u>N</u>	<u>0</u>	<u>0</u>	<u>5</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>Ø</u>	X			
Class B Protein	<u>Ø</u>				
Class B Fluoroprotein (FP)	<u>Ø</u>				
Class B Film-Forming Fluoroprotein (FFFP)	<u>Ø</u>				
Class B AR-FFFP	<u>Ø</u>				
Class A-B Hi Expansion Foam	<u>Ø</u>				
Class A Training Foam	<u>Silvex</u> <u>Chemgastral</u>	<u>Y</u> <u>Y</u>	<u>20</u> <u>10</u>	<u>15</u> <u>5</u>	<u>20</u> <u>10</u>
Other	<u>Ø</u>				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Kleen, Chief
Name and Title

Bertha Fire
Fire Department

218 924 4211 6/3/08
Phone Number Date

bhtrans@eot.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

we have used fire foam in many places in our area

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Bigelow Elevator Parking Lot





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>yes</u>	<u>1 gal per year</u>	
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Hohensee Fire Chief

Name and Title

Bigelow Fire Dept.

Fire Department

507 376-4849 6-7-08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): - 0 -

5. How much foam is used per training event?

- 0 gal Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Not used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Silv-ex</u>	<u>NO</u>	<u>10 gal</u>	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Peterson Chief
Name and Title

Bird Island MN.
Fire Department

320 212 9584
Phone Number

May 6 08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): *This Fall we put a new pumper truck into service, we did not use foam until then.*

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

3148 Co. Rd 5, Barnum, MN



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

605 INDUSTRIAL DRIVE

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	ATC	NO	—	—	—
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	SILV-EX ?	NO YES	15gal. 5gal	_____	15gal
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt Underwood CHIEF
Name and Title

Bloomington Prairie
Fire Department

507-583-2088 6-8-08
Phone Number Date

bpfcd@smig.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mel Hansen Fire Dept
Name and Title

Blomkest Fire Dept
Fire Department

Phone Number 320 995 6165 Date 5-27-08

E-Mail Address Mel Hansen



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): @ Station annual training.
We use delta dish soap for training

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

- 10 West 25th St.
- 10601 Xerxes Ave. So.
- 7050 E. 86th St.
- 4201 West 84th St.
- 10540 Bush Lake Road
- 8601 Lakeview Rd.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
<input checked="" type="checkbox"/> Class B Aqueous Film-Forming Foam (AFFF)	<i>Light Water AFFF</i>	<i>No</i>		<i>Current response</i>
<input checked="" type="checkbox"/> Class B Alcohol-Resistant (AR)-AFFF	<i>Light Water ATC</i>	<i>NO</i>		<i>Current response</i>
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
<input checked="" type="checkbox"/> Class A	<i>National Foam</i>	<i>No</i>		<i>Current</i>
<input checked="" type="checkbox"/> Training Foam	<i>?</i>	<i>YES/NO longer used.</i>		<i>Historic</i>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Seel FIRE CHIEF
Name and Title

BLOOMINGTON FIRE DEPARTMENT
Fire Department

952-563-4811 *5-1-2008*
Phone Number Date

useal@ci.bloomington.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): in a field on the ground

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

CRP Field

OVER →



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>Yes</u>	<u>5 gall</u>	<u>2 gall</u>	<u>15 gall</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Theisen (Fire Chief)

Name and Title

Bluffton Fire Department

Fire Department

218-385-2574

Phone Number

6-10-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

THE FOAM WE USE WAS AT MULTIPLE LOCATIONS
IN OUR COVERAGE AREA IN TASCALA COUNTY, MN.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANSUL	✓	25 gal	✓
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David Schwartz - Firefighter, Secretary
Name and Title

Bovey Fire Dept
Fire Department

218-326-7074
Phone Number

5-20-08
Date

dir+boy3@hotmail.com
E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Half mile south on 26





QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
X Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We generally use foam only to verify that the foam unit is functioning properly. We will run the foam just long enough to verify function, then we turn it off. There is a very small amount of foam dispensed. The location of the discharge will vary depending on where we are training at the time. We generally train throughout our protection territory, which is 45 square miles. We test the foam unit when we are conducting pump operation drills. We have foam capabilities on 3 of our Engines.

OVER ->

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Silvex	Y	> 1/4 gallon	Y	N
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Schaefer Fire Chief
Name and Title

Brandon Fire Department
Fire Department

320-524-2220 6/13/2008
Phone Number Date

brandonfire@gctel.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

1312 Minnesota Ave



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

No specific ones - varies every time we do

Training





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex	Yes	5-10 gallons	Historical
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Burgess - Chief

Name and Title

Breitung Fire Dept

Fire Department

218-753-6262

Phone Number

4-28-08

Date

sbburg@frontier.net.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Sit-tes Silv-ex	no	10 gal	yes	
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Garmek Fire Chief

Name and Title

Brewster Fire Dept.

Fire Department

507 842-5936 (City Hall) 6-4-08

Phone Number

Date

jgarmek@roundk.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

3127 Hwy 44

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): We are in the Country and Have no City Sewer System

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Right outside the
Fire Hall.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	NA			
Class B Alcohol-Resistant (AR)-AFFF	NA			
Class B Protein	NA			
Class B Fluoroprotein (FP)	NA			
Class B Film-Forming Fluoroprotein (FFFP)	NA			
Class B AR-FFFP	NA			
Class A-B Hi Expansion Foam	NA			
Class A	Silv-ex	No	30 Gallons.	Current
Training Foam	NA			
Other	NA			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

NEAL HALL Chief
Name and Title

Brook PARK
Fire Department

320-420-9584 4-29-08
Phone Number Date

Dnhall@ece.net.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We use it for grass fire - We only have foam on 2 grass rigs - We use it for training out on grass land

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

CITY OF BROWERVILLE

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SILVERX	YES	10GALS	✓	✓
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

WILLIAM BURL FIRE CHIEF
Name and Title

BROWERVILLE
Fire Department

(320) 594-0201
Phone Number

6/2/08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Hoffmann Fire Chief

Name and Title

Browns Valley

Fire Department

320-695-2467 4/28/08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We train on a vacant lot next door to our fire hall
202 S Mill St.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	N/A	No	0	0	0
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A Training Foam	Silv-ex	Yes	2.5 Gallons	2.5 Gallons - 2.5 Gallons	
Other	Silv-ex	Yes	2.5	2.5	2.5
	N/A	-	-	-	-

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David K. Pike
Name and Title

Brownsdale Volunteer Fire Department
Fire Department

507-567-2616 Phone Number 5.30.08 Date

BrownsdaleFire@frontier.net.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires, 25-50% of fires, 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never, Weekly, Monthly, Quarterly, Semi-Annually, Annually, Bi-Annually, Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons, 5 gallons, 5 to 10 gallons, More than 10 gallons (please specify):

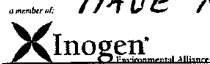
6. In training, where does the spent foam go?

- Storm Sewer, Sanitary Sewer, On-Site Septic, Ground, Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

(NOTE)- WE JUST PURCHASED A USED TRUCK FROM EDEN PRATRE THAT HAS A 30 GAL FOAM TANK BUT OVER HAVE NOT USED IT YET.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GARY R. MEINERS - CHIEF
Name and Title

BROWNSVILLE FIRE DEPT
Fire Department

507-482-6703 5-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

unknown



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus Hi Combat	no	less than 5	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Morris J. Gasow chief.
 Name and Title
Brownton Fire Dept P.O. Box 406 Brownton MN 55312
 Fire Department
(320) 328-5309 5-4-08
 Phone Number Date
bfd@myclearwave.net
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

309 ATLAS CIR STATION 2



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

315 North Main Street, Buffalo Lake, Mn.
Intersection of Main Street and Church Street.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3M Light Water</u>	<u>Yes</u>	<u>< 5 gallons</u>	<u>Current</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Angus Hi-Combat A</u>	<u>Yes</u>	<u>5-10 gallons</u>	<u>Current</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gayle Deal - Fire Chief

Name and Title

Buffalo Lake Fire Dept.

Fire Department

320-833-2374 4-27-08

Phone Number

Date

blfd firechief@hotmail.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

702 Sevilla Ave

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>Angus FORETRANS</i>	<i>Yes</i>	<i>30</i>	<i>10</i>	<i>10</i>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

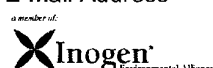
Questionnaire completed by:

Michael J Lupac
Name and Title

Buhl Fire Dept
Fire Department

218-258-2237 Phone Number *10/3/08* Date

buhl fire department @ yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Majority @ training facility jointly owned by Burnsville, Apple Valley, Eagan + Lakeville. Located at intersection of Cliff Road and River Ridge Blvd. in Burnsville.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Buyck Volunteer Fire Dept.

8035 Orr-Buyck Rd

Buyck, MN 55711





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Each year could be different maybe 2-3 Times

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Each training foam is used is different. It may be at the hall, it maybe at a live burn, it maybe at an automotive repair yard



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-Ex	yes	10-15 Gal	10-15 Gal
Training Foam	F 500	yes	5 Gal	5 Gal
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Thorpe

Name and Title

Jeff Thorpe Chief

Fire Department

Byron Fire

Phone Number

507 775 2603

E-Mail Address

djthorpe06@gmail.com



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): NA

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): NA

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

NA

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<u>Silcox</u>	<u>no</u>	<u>8 gals</u>	<u>no</u>	<u>no</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brad Karjala Chief
Name and Title

Calumet Fire Dept
Fire Department

247 7931
Phone Number

CAFD @ marble mn.com 6-8-08
E-Mail Address Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify): When we first got the pumper

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A

OVER ->



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>Yes</u>	<u>?</u>	<u>?</u>	<u>?</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Donny Ziebart Chief
Name and Title

Cambridge
Fire Department

763-689-4370 Cell 612-282-5192 6-3-08
Phone Number Date

Ziebart1956@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies everytime we do it.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	?	_____	510	_____	_____
Class A Training Foam	?	X	5 gal	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY DUIS Chief
Name and Title

Conby Fire Dept
Fire Department

607-223-5637 6/5/08
Phone Number Date

lduis@frontiernet.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Chem Guard</u>	<u>Yes</u>	<u>30 gal</u>	<u>same</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LAIRD ERIKSON Fire Chief

Name and Title

CANOSIA

Fire Department

218-729-6211 28 April 08

Phone Number

Date

CANOSIA FIRE @ Yahoo.com

E-Mail Address



Laird Erikson

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jan P. Nordsving Chief
Name and Title

Canton V.F.D.
Fire Department

507-743-5000 5/30/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE HALL PARKING LOT 100 4TH ST
N CARLTON, MN 55718 (VEHICLE FIRE)

PARKING LOT 4TH ST N & SOUTH AVE
TRAILER HOUSE TRAINING BURN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>SAFE GUARD</u>	<u>YES</u>	<u>10 gal</u>	<u>Both</u>
Training Foam	<u>SILVEX</u>	<u>YES</u>	<u>10 gal</u>	<u>Both</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve White Chief
Name and Title

CARLTON
Fire Department

218-384-4158 4-28-08
Phone Number Date

carltonfirechief@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

RAILROAD RIGHT OF WAY BY 8 RAILROAD ST N.W.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS FIRST STRIKE	YES YES	0-5 GAL 0-5 GAL	HISTORIC
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	NO	0	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	SILVEX	YES	20-25	CURRENT
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Timothy A Reiplinger FIRE CHIEF
Name and Title

CASS LAKE VOLUNTEER RURAL FIRE ASSN.
Fire Department

218-335-6195 4-28-08
Phone Number Date

CLfire@ARVig.NET
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Rarely

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies - do not usually use foam on training.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3M</u>	<u>No</u>	<u>less than 1 gal</u>	<u>historic</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Pioneer</u>	<u>No</u>	<u>20 gal</u>	<u>historic</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Milo Bennett
Name and Title

Centennial Fire District
Fire Department

651-789-7472
Phone Number

Date

cfdechief01@comcast.net 4-29-08
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- X Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
X Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

PARK PLACE CUL-DE-SAC





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	ANSULTE ARC 3X6	NO	NONE	
Class B Alcohol-Resistant (AR)-AFFF	LL	NO	NONE	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	ANGUS HIGH-COMBAT	YES	50 GAL	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GREGG GESKE CHIEF

Name and Title

CHANHASSEU

Fire Department

CHANHASSEU 5/5/08

Phone Number

Date

GAGESKE @ WATEROUS CO. COM

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

285 ENGLER BLD

CHASKA FIRE STATION





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Hi COMBAT	NO	0	Historic use
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Hi COMBAT	Yes	20 Gallons	Fires / Training
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TIM WIEBE FIRE CHIEF

Name and Title

CHASKA

Fire Department

952-448-2990 4-28-08

Phone Number

Date

twiebe@chaska.mn.gov

E-Mail Address

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Behind Fire Hall @ 9831 Hwy 37



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Citrex	Just to check systems	< 5gall	average
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Archambeau Chief
Name and Title

Cherry
Fire Department

218-742-3554 / 218-258-3598 Date 3/5/08
Phone Number

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS LOCATIONS IN FIRE DISTRICT FOR HOUSE BURNS. TRAINING SIZES/BURNS
DONE ON LIBERTY LANE IN CHISAGO CITY.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>ANGUS HIGH COMBAT A</u>	<u>Y</u>	_____	<u>HOUSE FIRES / VEHICLE FIRES</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRUCE M. PETERSON FIRE CHIEF
Name and Title

CHISAGO CITY FIRE DEPT.
Fire Department

651-257-4162 5-13-08
Phone Number Date

N/A
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

varied locations in town

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	X SIL-VEX	YES	10 Gallons	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Brown
Name and Title

CHISHOLM FIRE
Fire Department

218 254-7921 06-04-08
Phone Number Date

SAS bob@FNBCNET.COM
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Athletic field, Chokio, 3rd St W & 4 Ave. So.

Sec. 25 Leonardsville Township, Traverse Co. - (Empty farm place)



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus	yes	10 gal.	current
Training Foam	_____	_____	_____	_____
Other	Silvex - A	yes	10 gal.	current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Quackenbush Fire Chief
Name and Title

Chaska Fire Dept., MN
Fire Department

320 324-7450 5-5-08
Phone Number Date

bkquack@fedteldirect.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No *Built in tank but not compressed*

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): *would use more if not for cost*

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

in front of firehall front Street Claremont Mn.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	3M	✓	20gal?	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	^{absent} wet water	_____	5gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title Jeff Couell 2nd Asst. Chief Training Officer

Fire Department Cloremont

Phone Number 507-528-2701 Date 4-30-08

E-Mail Address _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

520 425 ST City State agre area





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>S&S i/v-ex</u>	<u>yes</u>	<u>5 gal. per yr</u>	<u>Current</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dick Marthaler Fire Chief
Name and Title

Clarkfield
Fire Department

320-669-4473 5-9-08
Phone Number Date

clarkfieldfd@frontiernet.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Bare Ground close to
Fire Station





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____ ? _____	YES	less	_____
Class A Training Foam	_____	_____	5 gal.	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Carl Anderson

Name and Title

Clarks Group

Fire Department

507-256-4106

Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): NEVER

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): DOES NOT APPLY

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<i>Amulco's</i>	<i>NO</i>	<i>25 gallons</i>	<i>Current</i>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RON KOEN CHIEF CLEAR LAKE FIRE/RESCUE
Name and Title

CLEAR LAKE FIRE/RESCUE
Fire Department

320-743-5638 *4/28/08*
Phone Number Date

*CL FIRE,
CLEARLAKE@FRONTIERNET.NET*
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): NO TRAINING WITH FOAM

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	<u>NONE ON HAND CURRENTLY</u>	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Doug NIETERS CHIEF
Name and Title

CLEAR WATER MN
Fire Department

320 558 6561 4/26/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Foam training has never been at the same
location ever.

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2146 Old North Shore Rd - Fire Hall #1



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	<u>Chemguard Plus</u>	<u>yes</u>	<u>Less 5gal.</u>	<u>HISTORIC</u>
<u>Class A</u>	<u>Chemguard First FC</u>	<u>Not Yet</u>	<u>none yet</u>	<u>Future Use</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robert Engelson Chief
Name and Title

Clifton Volunteer Fire Department
Fire Department

(218) 525-6819 May 7, 2008
Phone Number Date

Bob.Engelson@newpagecorp.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Grove Pit - Armorey Rd Cloquet



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus	No	Less than 10 GAL	Both
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Angus	No	Less than 10 GAL	Both
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Langenbrunner Fire Chief
Name and Title

Cloquet Fire Dept
Fire Department

218-879-6514 4-28-08
Phone Number Date

James.Langenbrunner@Hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	CHOMBANDS 3% (TYPICALLY)	<input type="checkbox"/>	10-15	<input type="checkbox"/>	<input type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Protein	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Fluoroprotein (FP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Film-Forming Fluoroprotein (FFFP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B AR-FFFP	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A-B Hi Expansion Foam	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A Training Foam	SILVOX	<input type="checkbox"/>	50-80	<input type="checkbox"/>	<input type="checkbox"/>
Other	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVIN TINOLIST / FIRE CHIEF
Name and Title

CHASSOT FIRE
Fire Department

218-328-5837
Phone Number

cohenulla@paerburnham.net
E-Mail Address

Date
5/27/08



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

27 Red River Ave S Cold Spring MA 02300
 Roon middle school North Parking Lot Main St.
 2nd Ave And 2nd St N on End of 2nd St N
 City maintenance shop 2nd Ave NE
 10th St NE And 11th St NE

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<u>Triax 3%</u>	<u>NO</u>	<u>0-10 gallons</u>	<u>YES</u>	<u>YES</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>Angus ATF 3-6%</u>	<u>NO</u>	<u>0</u>	<u>YES</u>	<u>YES NO</u>
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silvex 1% - 1%</u>	<u>YES</u>	<u>approx 30 gallons</u>	<u>YES</u>	<u>YES</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Hofmann Captain
Name and Title

Cold Spring
Fire Department

300-250-3000 5/27/08
Phone Number Date

Chofmann@mywood.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

1450 CO. RD. 14 - COLVILL FIRE DISTRICT

IRON LAKE ROAD - HOUSES FOAMED DURING HAM LAKE FIRE ON THE GUNFLINT TRAIL SPRING 2007



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

This varries from year to year. The last training was in
the 100 block of North Rail Road Street in Comfrey.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE STATION @ 1199 - 121 Ave N.W
COON RAPIDS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	NAT. Foam	N	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	SIV-EX AQUA-ECO	N Y	20 GAL	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

G. Johnston Asst. CHIEF
 Name and Title
 COON RAPIDS
 Fire Department
 763-767-6477
 Phone Number
 5-5-8
 Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

varies from training to training





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Silvex</i>	<i>yes</i>	<i>5gal</i>	<i>current</i>
Training Foam	<i>Silvex</i>	<i>"</i>	<i>"</i>	<i>"</i>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jon Frueter Chris
Name and Title

COSMOS mn
Fire Department

6320-583-1840
Phone Number

csd540@sprinkler.net, net 5-7-08
E-Mail Address Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Very seldom

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): on the grass at a station 2

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

St 2 8641 80th St S
Collage Grove, MN

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	3M	X	5 gallons	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	ANGUS	NO	30 gallons	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Byerly Fire Chief
Name and Title

Cottage Grove Fire
Fire Department

651-458-2860 5/27/08
Phone Number Date

bbyerly@cottage-grove.org
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3M</u>	<u>no</u>	<u> </u>	<u> </u>	<u>yes</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>Ansilite Arc</u>	<u>no</u>	<u>20</u>	<u>yes</u>	<u> </u>
Class B Protein	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B Fluoroprotein (FP)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B Film-Forming Fluoroprotein (FFFP)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B AR-FFFP	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class A-B Hi Expansion Foam	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class A	<u>Silvex</u>	<u>no</u>	<u>20</u>	<u>yes</u>	<u> </u>
Training Foam	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

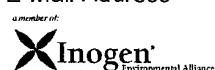
Questionnaire completed by:

Dale Louwagie Chief
Name and Title

Cottonwood Fire Department
Fire Department

507 829-1220 6/2/08
Phone Number Date

dlow@Frontier.net.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

USUALLY AT THE FIRE HALL
5592 HWY 210
CROMWELL MN 55726





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	SILVEX			
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
<u>Class A</u> Training Foam	SILVEX	YES	40 GAL	CURRENT
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVE BRIDGE FIRE CHIEF
Name and Title

CROMWELL FIRE
Fire Department

218 591-2547 5/8/08
Phone Number Date

sbridge@usg.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually X Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons X 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

By crosby city public works bld, on dist lot





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
<u>Class A</u>	<u>Hi-Combat A ANGUS</u>	<u>yes</u>	<u>5 gal.</u>	<u>10-15 gal. yearly</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chuck Leonhardt Chief
Name and Title

Crosby Fire
Fire Department

218-546-5474 / 218-838-2185-Cell 5/3/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas

City/County Joint Maintenance
 Facility Co Rd 3 South
 Crosslake Mn

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	Yes	10	✓	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by: Keith W Anderson Chief
 Name and Title
Crosslake
 Fire Department
218-692-3558 06/10/08
 Phone Number Date
CFL @ Crossfire . Net
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires, 25-50% of fires, 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly, Monthly, Quarterly, Semi-Annually, Annually, Bi-Annually, Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons, 5 gallons, 5 to 10 gallons, More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer, Sanitary Sewer, On-Site Septic, Ground, Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ARTHUR ELMORE Chief
Name and Title

CULVER VOL. FIRE DEPT
Fire Department

218-483-5674 4/28/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

At the Chrymer Fire Hall on the south side of the building





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus	Yes	1/2 Sa bucket	none
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Holmuis Assistant Chief
Name and Title

Cuyana Fire Department
Fire Department

218 330 4126 Date 5/4/08
Phone Number

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>NO</u>	<u>not documented</u>	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Philip Isaacson Asst. Chief

Name and Title

Dolan Fire

Fire Department

Phone Number

5/6/08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS PLACES





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	yes	Less 5 gal	Current
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	1ST DEFENSE	yes	Less 5 gal	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RONALD MARKS Chief

Name and Title

DARFUT Fire Dept

Fire Department

Phone Number

Date

4-30-08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Bi-Annually
- Quarterly
- Semi-Annually
- Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

833 Curran St.

OVER →



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QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
X Other (please specify): ABOUT ONCE EVERY 4 YEARS

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE HALL 102 BAKER ST
DEER CREEK





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

By Deerpood City Maintenance Building on Industrial Road





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<i>Augus 3/6%</i>	<i>No</i>	<i>Less than 5 gallons</i>	<i>yes</i>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<i>Augus Hi Combat 1-1.0%</i>	<i>yes</i>	<i>Less than 5 gallons</i>	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John V. Taylor *Chief* *John V. Taylor*
 Name and Title

Deerwood
 Fire Department

218-534-3480 *4-29-08*
 Phone Number Date

dfd@emily.net
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes
 No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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STATE_02821301

2222.0344



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dennis Wick Chief
Name and Title

Delavan Fire Dept.
Fire Department

507-456-0894 5-5-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821303

2222.0346



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Stephenson Fire Chief
Name and Title

Dexter Vol. Fire Dept.
Fire Department

507-584-6422 (W) 5/24/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	3-6% AFFF ^{FIRE FIGHTING}	NO	_____	_____	_____
Class A	SILV-EX 0.1 to 1.0%	NO	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt Kennedy Chief
Name and Title

Dilworth Fire Department
Fire Department

(218) 287-2248 5-28-8
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): NOT a lot maybe once a year

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

709 1st AOC NW Fire hall

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

CR 2 FARM FIELD - most recent.
~1 mile east of 10
south side of CR 2
Never same place twice.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Lightwater	Yes	5gal	Williams Bros pipeline
Class B Alcohol-Resistant (AR)-AFFF				↓
Class B Protein				Terminal ~ 6mi away - use AFFF.
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	High Anses	Yes	5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Roger P. Inke, Chief
Name and Title

Dover
Fire Department

507-932-3384 4/30/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OLD BALL BEAR AND - N. SEELY AVE



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Very rare - cost.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

all over

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Silv-ex	Y	2500g	Y	Y
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Scott Chief
Name and Title

Eagan
Fire Department

651-675 5901
Phone Number

5-27-08
Date

mScott@cityofEagan.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Park, by the Cemetery on CR. 27 N of Eagle
Lake American Legion lot on parkway Ave





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	50%	10-15 gal	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Rock Chief
Name and Title

Eagle Lake Fire
Fire Department

507 2573515
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Bi-Annually
- Quarterly
- Semi-Annually
- Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2022 CENTRAL AVE NE (Northland Comm. & Tech. College)

OVER →



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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Chemguard</u>	<u>yes</u>	<u>10 gal</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Gust FIRE Chief
Name and Title

EAST GRAND FORKS FIRE DEPT.
Fire Department

218-773-2403
Phone Number

_____ Date

rgust@ci.east-grand-forks.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Hardly ever

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Don't use for training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Drexel Control-A	NO	2 1/2 gal	seldom
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jamie Sonnek Asst. Chief
Name and Title

Easton Fire
Fire Department

507-787-2545 5-13-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

In The City of Echo For Live Burn
3 Miles south & 2 West of Echo





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex " "	yes yes	5 gal 5 gal	For A Fine
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Alec Dirnbenger Chief
Name and Title

ECHO
Fire Department

507 933 4249 Cell 507 829 7240 4-29-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): N/A

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Angus</u>	<u>NO</u>	<u>30 gall.</u>	<u>typical</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Koering
Name and Title

Eden Prairie Fire
Fire Department

952-949-8338
Phone Number

S.Koering @ edenprairie.org 05/06/08
E-Mail Address Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): we havent trained with foam in a while

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

we dont use very much at all maybe 15 to 20 gallons a year some time it dont get used more than a couple times a year

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<i>[scribble]</i>	<input type="checkbox"/>	<i>[scribble]</i>	<input type="checkbox"/>	<input type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Protein	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Fluoroprotein (FP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Film-Forming Fluoroprotein (FFFP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B AR-FFFP	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A-B Hi Expansion Foam	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A	<i>Hi Combat</i>	<input type="checkbox"/>	<i>1520</i>	<input type="checkbox"/>	<input type="checkbox"/>
Training Foam	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Other	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Joe Thielen Fire chief

Name and Title

Eden Valley Fire

Fire Department

320 453 5801 *6-2-08*

Phone Number

Date

Edn Valley Fire mxtel.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): almost never

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS LOCATIONS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE STATION GROUNDS

39828 ST Hwy 113

WAUBUN MN 56589



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	No	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	No	_____	_____
Class B Protein	_____	No	_____	_____
Class B Fluoroprotein (FP)	_____	No	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	No	_____	_____
Class B AR-FFFP	_____	No	_____	_____
Class A-B Hi Expansion Foam	_____	No	_____	_____
Class A	_____	Yes	5 → 10 GAL	_____
Training Foam	_____	No	_____	_____
Other	_____	No	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

FRED SOCH FIRE FIGHTER

Name and Title

ELBOW-TULABY LAKES V.F.D

Fire Department

_____ 5-7-08

Phone Number

Date

ETFD @ ARO19.NET

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SIL VEX	only Hi	10 gal	0	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Wilde CHIEF

 Name and Title

ELIZABETH

 Fire Department

218-770-9344

 Phone Number

6-2-08

 Date

gwilde1@yahoo.com

 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Semi-Annually
- Weekly
- Annually
- Monthly
- Bi-Annually
- Quarterly
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

415 JACKSON AVE, ECK RIVER
Fire station #1

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	Angus	yes	30 gallons	30	30 gallons
Other	_____	_____	_____	_____	_____

Approx per year

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce A West, Fire Chief

ECR River

763-635-1100

bwest@ecr-river.mn.us

5/27/08



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

At Melrose Firehall 1763 Melrose Rd
Melrose Mn 55766

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<i>HS Foam</i>	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brady Miller *Asst Chief*

 Name and Title

EVID (Ellsburg)

 Fire Department

482-3477- "No one there" *6-3-08*

 Phone Number Date

N.

 E-Mail Address

a member of
EVID @ Arrowhead Tel. Net
 5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Silver Town Hall ~~7812 Hwy 5~~ 7812 Hwy 5 Meadowslands MN 57062
Just installed the system in 2007 Trained once ~~using~~ using about 1 gallon
of training foam



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Chemguard</u>	<u>NO</u>	<u>none</u>	<u>none</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	<u>Chemguard</u>	<u>Yes</u>	<u>1 gallon</u>	<u>1 gallon</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Todd Matvey - Fire Chief
Name and Title

Elmer Fire Department
Fire Department

218-427-2324 / 218 349 4826 4-28-08
Phone Number Date

T.MATVEY@MSH.COM
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes
 No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821337

2222.0380



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Deters Chief
Name and Title

Elrosa FIRE Dept.
Fire Department

320-697-5544
Phone Number

5-27-08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

MINERS DRIVE





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS FOREXPANS SLL-VEX	X	30 GAL	CURRENT
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CHIEF LOUIS GERZIN
Name and Title

ELY FIRE
Fire Department

218-365-3227
Phone Number Date

FIRECHIEF @ ELY, MN, US
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event? *N/A*

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? *N/A*

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	Silv-ex	NO	less than 1 gal	None for 8 years	less than 5 gallons per lever.
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY PETERSON - Chief
 Name and Title

Emmons
 Fire Department

507-297-5553 Chief's Home # 6-2-08
 Phone Number Date

lpeters@smig.net
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

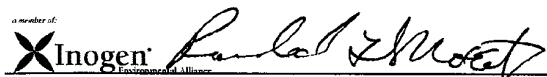
Questionnaire completed by:

Randy Moritz Chief
Name and Title

Emily Vol Fire Dept
Fire Department

215-820 763-2480 5-1-08
Phone Number Date

clerk@emily.net
E-Mail Address



6910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

On the ground right behind our Fire Hall
↳ 106 State St,
East Side Addition in a Caldesac, on
Council Circle
2004 Addn
East of town
East end of Main



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	<u>Universal Gold #110390</u>	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Anderson 2nd Assistant Chief

Name and Title

Evansville

Fire Department

320-834-4995

Phone Number

5-2-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chief Steve Skelton

Name and Title

Eveloth Paid on Call

Fire Department

218 744 7550

Phone Number

5-8-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Multiple training locations - house burns, parking lots, training facilities.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

city shop

417 E Margaret St

Fairmont MN 56031

parking lot



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fairmont

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
X Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- X Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2077 LYRPENTYRE FALCON HEIGHTS 55113 MN.
IN PARKING LOT OF FIRE STATION



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

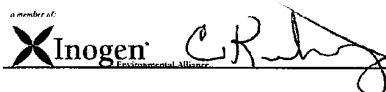
<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	THUNDERBOLT	YES	LESS THAN 5 GAL	
Class A Training Foam	3M	YES	LESS THAN 5 GAL	
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CLEM KUHNHAJERZ FIRE CHIEF
 Name and Title
 Falcon Heights
 Fire Department
 651-792-7635
 Phone Number
 4/29/08
 Date
 CKUHNHAJERZ@falconheights.org
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821355

2222.0398



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rodney Dahlrad Chief
Name and Title

Felton Community Fire Dept
Fire Department

218-294-3656 cell 701-371-5728
Phone Number Date

roddah@msw.com 5-28-2008
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Finland, Minnesota Area - Fire Hall
gravel pits etc





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>3 M</u>	<u>yes</u>	<u>20 gallons</u>	<u>H. U</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Peter Walsh - Chief

Name and Title

Finland Fire Dept

Fire Department

218-353 7680 29 April 08

Phone Number

Date

E-Mail Address

peterw@finlandfire.com



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Typically
Area, 4th St North Fisher City Shop Cooled
Fisher MN.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Aqua-Kem	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	NO	2 gal	Yes	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	Silvex	Yes	10 gal	Yes	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Christopher Klammer

Name and Title

Fisher Fire & Rescue

Fire Department

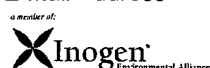
218 - 891 - 2207

Phone Number

Date

klam @ rcv.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): NONE

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): 0

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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STATE_02821361

2222.0404



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Sily-EX	NO	15 gal	
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Mason Chief
Name and Title

Floodwood Volunteer
Fire Department

Office 218 476-2738 Home 218 476-2557 4-29-08
Phone Number Date

Floodwood Fire @ Hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

IT VARIES DIFFERENT LOCATIONS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<i>X</i>	<i>YES</i>	<i>1.2 gals</i>	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Mickelson _____ *chief*
Name and Title

Foreston F.O _____
Fire Department

320-294-5707 _____ *3-26-08* _____
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

North side of 10th St and west of Polk County
Rd 30 in Fosston MN



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other F-500	Hazard Control Technologies	yes	Equal	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brent Miller Fire Chief

Name and Title

Fountain Fire Dept

Fire Department

507-268-4923 5-5-08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): maybe 1 time a year if that!

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

we have never used foam in the past 5 years. so I could not tell you when the last time we trained with it

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Angus</u>	<u>NO</u>	<u>15 gal</u>	<u>0</u>	<u>?</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Girk Fire Chief

Name and Title

Freeport

Fire Department

320-836-2411 5-27-08

Phone Number

Date

Freeport Fd @ albanytel.com

E-Mail Address



This is the 2nd time I filled this out

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

SIDE LAKE COMMUNITY CENTER
 4222 N HWY 5 SIDE LAKE, MN 55781





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	SILVEX	YES	LESS THAN 5 GAL	BOTH
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PETER LESCHAK
 Name and Title
 TOWN OF FRENCH VFD & EMS
 Fire Department
 218-254-3208 Date 4-28-08
 Phone Number
 PLESCHAK@CDINTERNET.COM
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): NOT VERY OFTEN

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Retention Pond

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

300 71st Ave
Fridley, MN 55432





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	3M	Yes	0	Historic
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANSUL SILVER	No	_____	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JOHN BERG FIRE CHIEF
Name and Title

FRIDLEY
Fire Department

763-572-3610
Phone Number

bergj@ci.fridley.mn.us
E-Mail Address

Date
5/15/08



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

gravel pit

Most of the use of foam is on car accident/fire





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>Ansolite ARC</u>	<u>No</u>	<u>< 5 gal</u>	<u>Current</u>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
- Class A Training Foam	<u>Silv-ex</u>	<u>Yes</u>	<u>5-10 gal</u>	<u>Current</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Shawn Ethridge, Secretary

Name and Title

Garfield Fire Department

Fire Department

320-834-2223

Phone Number

05/27/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>ChemGuard</u>	<u>NO</u>	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>ANGUS</u>	<u>YES</u>	<u>Large</u>	<u>X</u>	<u>X</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Schons Fire chief
Name and Title

Gaylord Fire Dept
Fire Department

1-507-237-5483 05-28-08
Phone Number Date

Jfire @ myclearwave.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Intersection of 1st Ave. N.W. & 1st St, N.W.
 || || 1st Ave. S.E. & 3rd St, S.E.
City property 500 Block of Main Street West





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
<u>Class A</u>	<i>Silv-ex</i>	<i>Yes</i>	<i>5-10gal.</i>	<i>5-10gal.</i>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Bartsch / Fire Chief
Name and Title

Geneva Fire Department
Fire Department

507-256-4789 Phone Number *5-5-08* Date

gbartsch@frontiernet.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

There are no specific areas for training, every person is usually different location

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	No	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	No	_____	_____	_____
Class B Protein	_____	No	_____	_____	_____
Class B Fluoroprotein (FP)	_____	No	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	No	_____	_____	_____
Class B AR-FFFP	_____	No	_____	_____	_____
Class A-B Hi Expansion Foam	_____	No	_____	_____	_____
Class A	Yes	_____	30 gals	SAME	SAME
Training Foam	_____	No	_____	_____	_____
Other	_____	No	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Klukas Fire Chief

Name and Title

Gibbon Fire Dept.

Fire Department

507-834-6298

Phone Number

5-27-08

Date

gibbonfirr@myclearwave.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Local High School grounds - Football Field



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	Ansul	Yes	less than 5 gallons	
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Craig Rayman Chief
Name and Title

Glenville MN 56036
Fire Department

507 448 3916 May 12, 2008
Phone Number Date

raymanc@geschools.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply..

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Angus Fire Forexpan 5</i>	<i>YES</i>	<i>Less than 5 gal</i>	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David Orlowski *Chief*
Name and Title

Glenwood Fire Department
Fire Department

370-760-4798 *May 3, 2008*
Phone Number Date

chiefdaveo@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

7800 Golden Valley Road

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>Angus</u>	<u>Yes</u>	<u>20</u>	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Angus</u>	<u>Yes</u>	<u>50</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Kuhly, Fire Chief
Name and Title

Golden Valley
Fire Department

763-593-8080 6-5-08
Phone Number Date

mkuhly@ci.golden-valley.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No *built in Tank but does not use compressed air*

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Goodland Community Center/Fire hall
13502 Community Center Drive
Goodland, Minnesota

OVER→



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Sikv-ex</u>	<u>yes</u>	<u>25gal</u>	<u>25gal</u>	<u>25gal (only had for 3 years)</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

T.S. Russell Assistant Chief
Name and Title

Goodland Volunteer Fire Department
Fire Department

218-492-4137 5/28/08
Phone Number Date

Teber@hughes.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DALE HANSON FIRE CHIEF
Name and Title

WOODRIDGE AREA FIRE + RESCUE
Fire Department

218-378-4144 work 4-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Dump.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silo-ex</u>	<u>yes sometimes</u>	<u>20 To 30 gallons</u>	<u>100 gallons ?</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Duane B Richardson Fire chief
Name and Title

Graveville Fire Dept.
Fire Department

320-748-7911 5-6-08
Phone Number Date

guillefiredept@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Depends on the Tanker - our Address
2122 E 6th St G.R., MN 55744



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	SILV-EX	YES	32 Pales	?
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Martin Halverson *EMT* 1st Asst. Chief

Grand Rapids Fire Department

218-355-2741

Mhalverson@ci.grand-rapids.mn.us

Date 5/6/08

E-Mail Address





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Hi Combat A</u>	<u>No</u>	<u>10 gal.</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Stoeckman Fire Chief
Name and Title

Green Isle Fire Dept
Fire Department

507 326 3941 6-2-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
 - 5 gallons
 - 5 to 10 gallons
 - More than 10 gallons (please specify): _____
- 1-3 gallon at most - 14 gallon*

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*we don't train that much with foam
our foam is set for 10% V/V*





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	<i>Chem Guard</i>	<i>N</i>	<i>2</i>	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	<i>Chem Guard</i>	<i>N</i>	<i>2</i>	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ron Jensen Chief
Name and Title

Green Bay Fire Dept
Fire Department

718-689-1002 *5-13-08*
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

A Old Base ball Field - City Property

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Sil-Vex</u>	<u>yes</u>	<u>5 gal or less/year</u>		<u>Total use</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bill Beerscheit Chief

Name and Title

6504 Eagle

Fire Department

320-285-2464 5-28-08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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STATE_02821403

2222.0446



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Once / per Year

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Private wood pile/brush or wildland fires. No address available. Kept away from all water sheds.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<i>NA / Wildland Fire Supply</i>	<i>yes</i>	<i>use > 5 gal</i>	<i>> 5 gal / year</i>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Baumann Fire Chief

Name and Title

Countert Trail V.F.D.

Fire Department

218-388-2203 4/28/08

Phone Number Date

dan@golden-eagle.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821407

2222.0450



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SILVER	X	10GAL	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CR MOORE Chief

Name and Title

HACKENSACK AREA Fire Dept

Fire Department

218-675-6162

Phone Number

6-9-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No (1 ^{CAFS} unit on 1 Rescue Unit)

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Sylvex</u>	<u>Yes</u>	<u>< 5 gal</u>	<u>Both</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DON KRUEGER, FIRE CHIEF
Name and Title

HAM LAKE
Fire Department

763-235-1665 4/30/08
Phone Number Date

dkrueger@ci-ham-lake.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

181 BROADWAY





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	ANGUS	YES	5 gal	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRAD DROEGE CHIEF

Name and Title

HAMBURG FIRE DEPT.

Fire Department

952-467-3232 467-3178 4-28-08

Phone Number

Date

Bdroege500@AOL.COM

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

92 Hamel Rd (FIRE STATION) AND OTHER VARIOUS
LOCATIONS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>ANSUL SILVEX</u>	<u>X</u>	<u>300 gal</u>	<u>Current</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

H. BRANDON GUEST, CHIEF
Name and Title

Hamel Vol Fire Dept
Fire Department

612 723 5400 14-May-08
Phone Number Date

Brandon.Guest@HamelFire.org
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes
 No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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STATE_02821415

2222.0458



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry Mathis - chairman
Name and Title

Hongaaed
Fire Department

(218) 487-5358 5-1-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Ball Field Parkway





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Knott Chief

Name and Title

Newburg Fire 3 Rescue

Fire Department

507-6669-2491

Phone Number

4-28-08

Date

dknott@stateenv.net.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821418

2222.0461



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall, Main Aves.

Brush Dump, East of IAT-139 + Garden Road





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANSULITE	YES	LESS THAN 5 GAL	CURRENT
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	YES	under 5 gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	under 5 gal	Current YES
Training Foam				
Other	Aqua-Eco	YES	1 stick	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bill Henion Chief
Name and Title

Harmony Fire Dept.
Fire Department

507-886-4600 D - (5211 Holl) 4-29-08
Phone Number Date

harmonyufd@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Silv-ex	N	None	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brandon Fleckus Fire Chief
Name and Title

Hartland Fire
Fire Department

507-845-2469 6/5/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

multiple locations





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M-LIGHT H ₂ O A/C	Y	5000	
Class B Alcohol-Resistant (AR)-AFFF	ANSULTE A/C	Y	—	
Class B Protein	NONE			
Class B Fluoroprotein (FP)	NONE			
Class B Film-Forming Fluoroprotein (FFFP)	NONE			
Class B AR-FFFP	NONE			
Class A-B Hi Expansion Foam	NONE			
Class A	ANGUS	Y	10551	
Training Foam	NONE			
Other	F-500	Y		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Townsend
Name and Title

Hastings Fire
Fire Department

651 480-6150 5-29-2008
Phone Number Date

Jtownsend@ci.hastings.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Classroom only

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): NA

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Classroom only

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silverex</u>	<u>NO</u>	<u>Less than 5000</u>	<u>Same</u>	<u>Same</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Schulte Chief
Name and Title

Hawley Area Fire Dept.
Fire Department

218 483-4845 5-27-08
Phone Number Date

HFRAClub@Arvig.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes
No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Eric Knutson Chief

Name and Title

Hayward Fire Dept

Fire Department

507-402-1252

Phone Number

5-28-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

location varies on drill





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Chunguard</u>	<u>yes</u>	<u>30gal</u>	<u>Historic</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dana Blume - Secretary
Name and Title

Herman Fire Department
Fire Department

320-284-2137 - Dennis Horn 5-12-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

WE ONLY HAVE FOAM ON OUR GRASS FIGHTING RIG
AND HAVE ONLY HAD FOR ONE YEAR. DUE TO FOAM EXPENSE
TRAINING HAS BEEN KEPT TO HOW TO TURN ON AND
OFF AND FLUSHING PUMP AND HOSE.



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS	YES	5 GAL	CURRENT
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Peterson, Chief

Name and Title

Hewitt Fire Department, PO Box 91, Hewitt, MN 56453 (Please correct address accordingly)

Fire Department

218.924.4255 (Chief's daytime number)

5/07/08

Phone Number

Date

stevep@arvig.net

E-Mail Address

a member of:



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2320 Brooklyn, Dr. Hilling, MN 55746





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silverx	No	5 gal	_____
Training Foam	F-500	Yes	5 gal	_____
Other	F-500	Yes	5 gal	20 gal

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____ Tony Pogorels Fire Chief
Name and Title

_____ Hibbing
Fire Department

_____ 218-362-5966 _____ 5-5-08
Phone Number Date

_____ tpogorels@ci.hibbing.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

700 block of central ave in Hills, MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>ANSUL Silvex</u>	<u>Yes</u>	<u>Less than 5gal - 5gal, Annual</u>	
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Derek Burdesev Sec.
Name and Title

Hills Area
Fire Department

507-962-3140 5-8-05
Phone Number Date

dburdy8@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event?

- None Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	/NO	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	_____	10 Gals.	Vehicle/Wildland
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Villebro Chief
Name and Title

Hill City Fire Dept.
Fire Department

218-697-8276 5-2-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Bi-Annually
- Quarterly
- Semi-Annually
- Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

End of Col-de-sag, on Industrial Rd
just east of Morris Ave.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silu-ex</u>	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kelly O'Donovan - Chief

Name and Title

Hinckley Vol. Fire Dept

Fire Department

cell 320-279-1445

Phone Number

Date

HVFD@SCICable.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Salvage yards car lots
Bulk sites structure for

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire hall - tarred 420/480 main

N.S. Park lot - tarred. 900 5th St.

Softball field. 201 main

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	Silv-Ex 6 week water	Y ✓	5-50 5	Yes	Yes Yes
Other	_____	_____	_____	_____	_____

↓
Grass Fires

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Patrick Meier

Name and Title

holding for

Fire Department

320-746-2244

Phone Number

6-10-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

 Name and Title

 Fire Department

 Phone Number

 Date

 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

101 17th Ave SO

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	FirePower Chemguard, Class A, B, 3M	No	109AL	yes	_____
Other	HCT-F500 class AB National Foam Hazmat for Acid spills, and alkalines.	yes	"	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DALE Specken Fire Chief

Name and Title

Hopkins Fire Dept

Fire Department

652-548-6451 5-27-08

Phone Number

Date

D.Specken@hopkinsmn.com

E-Mail Address





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

[Signature] Chief

Name and Title

Howland

Fire Department

Phone Number

Date

5/2/08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually X Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Triple Badfields or by Hoyt Lakes F.D.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

5223 140 ST N HUGO MN 55038
4630 FABLE Rd CT.N. ~~ST~~ HUGO MN 55038

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	<input checked="" type="checkbox"/>	10 GAL	Yes	Yes
Class B Protein		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Fluoroprotein (FP)		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Film-Forming Fluoroprotein (FFFP)		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B AR-FFFP		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class A-B Hi Expansion Foam		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class A	ANGUS	<input checked="" type="checkbox"/>	1-2 GAL	YES	Yes
Training Foam		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RON GRAY FIRE FIGHTER
Name and Title

HUGO FIRE DEPT
Fire Department

651 429 6366 5-29-08
Phone Number Date

hugfd@comcast.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
X 25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly X Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- X Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

205 3rd Ave SE Hutchinson, 1300 Adams St SE
Hutchinson Fire Training facility





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water AFFF/ATC	Yes	less than 10 gal	Historic
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex Class A	Y	10 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Popp Battalion Chief / equipment
Name and Title

Hutchinson Fire Dept.
Fire Department

320 ~~555~~ 834-5653 4/28/08
Phone Number Date

Jpopp@ci.hutchinson.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*The township transfer station - car
bros, if car extrication - no address
available -*

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Angus</u>	<u>yes</u>	<u>20 gal</u>	<u>Same</u>	<u>Same</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ryan Schultz - Asst. Chief
Name and Title

Ideal Fire Dept.
Fire Department

218-543-4392 6-4-08
Phone Number Date

ideal/fd@uslink.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

7519 Albert Rd fire hall parking lot (Blacktop)





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>DNR Supply</u>	<u>yes</u>	<u>10 gals</u>	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Knobel Kubis Treasurer
Name and Title

Industrial Vol. Fire Dept
Fire Department

218 729-5268 4/28/08
Phone Number Date

E-Mail Address

original
55779



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes Pump
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Never

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): NONE

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): NO PLACE!

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Do not use for training!





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Bos-Chek WD-887	NO Asearis	10 gallon	
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul E. Oran
 Name and Title
Isle Fire and Rescue
 Fire Department
1-320-676-3117 May 4, 2008
 Phone Number Date
None
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Cox Fire Chief

Name and Title

Itasca Volunteer Fire Dept

Fire Department

218 657-2692 4/29/08

Phone Number

Date

bcitasca@gvtel.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

305 Sheridan





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silverex	yes	109mls	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY OLSEN
Name and Title

JACKSON Fire Dept. JACKSON area 56143
Fire Department

507-847-3121 4-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Wall St West Vaccant Rot.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silv-ex	NO	2gal	Current use
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Judd Kuslie Chief
Name and Title

Jasper
Fire Department

Home 507 348-7925
Phone Number

28 APR 2008
Date

JASPER EFB @ iw.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Ansulite	NO	< 5 gals	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	SILV-EX	NO	< 5 gals	Current
Other	3M	NO	< 5 gals	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Curtis Johnson / Secretary
Name and Title

Jeffers Fire Dept.
Fire Department

507-327-1711 4-29-08
Phone Number Date

johnncurt@centurytel.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Intersection of Duvoe St and Deaver St



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821473

2222.0516



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2408 W 70 St - Kasson Mn





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex	yes	5	yes 45 gal/yearly
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James McAndrews Training Officer
Name and Title

Kasson Fire Dep +
Fire Department

507-273-0403
Phone Number # Date

McAndrewshouse@yahoo.com 5/5/08
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Pacific Ave + 9th St. S. - Kerkhoven

KMS High School - 15th St. N. - Kerkhoven

(Parking Lot)



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus	Yes	25 gals	Both
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kelly Hauge Chief
Name and Title

Herkhoven
Fire Department

320-264-5547 4/30/08
Phone Number Date

Kellyhauge@tds.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): CAN'T AFFORD TO USE IN ON TRAINING

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): DONT USE IT IN TRAINING

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

DONT USE FOAM IN TRAININGS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	ChemGuard INC. CLASS A PLUS	No	5 Gallons	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Hostenberger Fire Chief
Name and Title

Kettle River Vol
Fire Department

218 273-4662 5/6/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): used at fire train at voc tech for foam

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Training in foam is done at South Central College
in North Mankato, 1920 Lee Blvd, North Mankato 56003



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	Sil-vex	<input checked="" type="checkbox"/> No	5 gals	5 gals yr.
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Sil-vex	No	15 gals	10 gals/yr.
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 3, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brandon Hagenson Fire Chief
Name and Title

Kiester Fire Dept.
Fire Department

507-383-7458
Phone Number

4-29-08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): WE DON'T USE FOR TRAINING

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): DO NOT USE FOR TRAINING

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

512 SPRUCE AVE. KINNEY





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-EX	NO	0	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK TOWNER Asst. Chief
Name and Title

KINNEY - GREAT SCOTT
Fire Department

N/A 4-30-08
Phone Number Date

KGS Fire @ MCHSI, com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

La Crescent High School parking lot + Soccer field
14th ST S. + Lamar Blvd La Crescent





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Various locations





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	Yes	25 gals	Training
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	Ansul	NO	0	0
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Angus	Yes	30 gals	Calls
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Malmquist Fire Chief

Lake Elmo

651-770-5006 4/29/8

gmalquist@lakeelmo.org



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Very rare - we don't use foam for training due to the cost of it.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	Ansulite ARC	NO	>5 Gal	Current
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silo-Ex	NO	10 Gal	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Loren Gilmore - Fire Chief
Name and Title

Lakefield Fire Dept.
Fire Department

507-662-5750
Phone Number

4-29-08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821493

2222.0536



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	<u>Silvex</u>	<u>NO</u>	<u>50gal</u>	<u>none</u>	<u>unknown</u>
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

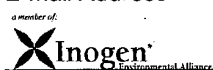
Questionnaire completed by:

Kurt Rogers Fire Chief
Name and Title

Lakewood Fire Dept.
Fire Department

218-525-5801
Phone Number

Lakewood chief@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

County 8 Lansboro Ball Park Parking Lot

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	<u>AQUA ECO</u>	<u>NO</u>	<u>—</u>	<u>NO</u>	<u>—</u>
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>AQUA ECO</u>	<u>NO</u>	<u>—</u>	<u>NO</u>	<u>—</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Andrew C Drake Chief
Name and Title

Lanesboro
Fire Department

507 467-2225 5-29-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class-B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821497

2222.0540



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

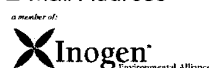
Questionnaire completed by:

Harley Bransted Fire chief
Name and Title

LaSalle Fire Department
Fire Department

507 375 3621 June 3rd
Phone Number Date

bran3621@cccinternet.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

IF FOAM WAS USED AT A TRAINING EXERCISE IT WAS VERY LITTLE, ONLY TO SHOW NEW MEMBERS HOW TO APPLY IT OR SOMETHING. LESS THAN A HALF GALLON WAS USED BECAUSE OF COST.

THE TRAINING WAS HELD AT FIRE HALL. ONLY IN THE PAST 5 YEARS HAVE WE STARTED USING FOAM ON A REGULAR BASIS. WE HAVE AN ENGINE WITH A BUILT IN FOAM SYSTEM THAT CAN BE USED MORE EFFICIENTLY.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>SILV-EX</u>	<u>NO</u>	<u>30 GAL.</u>	<u>5 GAL.</u>	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Schweser Fire Chief
Name and Title

LeCenter
Fire Department

507-357-4844 5-27-08
Phone Number Date

TPSUSH@frontier.net.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	<u>Silv-ex</u>	<u>NO</u>	<u>30 GALLONS</u>	<u>YES</u>	<u>YES</u>
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom OBELE FIRE CHIEF

Name and Title

LE SUKUR FIRE DEPARTMENT

Fire Department

507-665-6401 6/5/08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): once or twice year

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

out in a field where we had a
round bale of hay





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Bi-Annually
- Quarterly
- Semi-Annually
- Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	No	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	No	_____	_____	_____
Class B Protein	_____	No	_____	_____	_____
Class B Fluoroprotein (FP)	_____	No	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	No	_____	_____	_____
Class B AR-FFFP	_____	No	_____	_____	_____
Class A-B Hi Expansion Foam	_____	No	_____	_____	_____
Class A	_____	Yes	5-10 gal	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Charlie Matcke Chief

Name and Title

Lewiston

Fire Department

507-523-2350

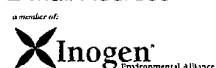
Phone Number

5-29-08

Date

CSmatcke@gmail.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

S Hwy Drive & Griggs Ave





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Behind Station

22870 Tyso Creek Dr.

Stacy, MN 55079



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3M Light Water ATC</u>	<u>Yes</u>	<u>5-10gal</u>	<u>Historic</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>3M Light Water ATC</u>	<u>Yes</u>	<u>5-10gals</u>	<u>Current</u>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silv-ex "Class A"</u>	<u>No</u>	<u>20-25</u>	<u>Current/Historic</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Stockinger Fire Captain
Name and Title

Liswood Fire Dept.
Fire Department

612-865-1924 5/7/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): 1 or 2 times a year

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

In County at a grass + old barn fire
Backoff and 170th ST

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James J. Weidert
Name and Title

Lismoi Fire & Rescue
Fire Department

507-920-7208
Phone Number

June 3
Date

jkweidert@myclarwave.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations? *only*

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Parking lot behind fire station 325
Little Canada Rd.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Ansul</u>	<u>No</u>		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	<u>Ansul</u>	<u>yes</u>	<u>5 gallons</u>	<u>historic mostly</u>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Don Smiley Assistant Fire chief
Name and Title

Little Canada
Fire Department

651-481-7883
Phone Number

dpsmiley@comcast.net Date 5/6/08
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

314 1st ST. N-E. LITTLE FALLS

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<u>MN-MINNIG Co</u>	<u>NO</u>	<u>56GALS</u>	<u>NO</u>	<u>YES</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	<u>F-500</u>	<u>NO</u>	<u>20GALS</u>	<u>YES</u>	<u>YES</u>
Class A	<u>SILV-EX</u>	<u>YES</u>	<u>56GALS</u>	<u>YES</u>	<u>YES</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael NIEMAN FIRE CHIEF
Name and Title

LITTLE FALLS FIRE DEPT.
Fire Department

320-616-5391 _____
Phone Number Date

Mbniiff@CHARTERINTERNET.COM.
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

At the firehall, the corner of McPherson and 3rd Ave





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael LaClain Secretary
Name and Title

Littlefork Fire Department
Fire Department

(218) 278-6666 5-1-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

WE DONT USE FOAM - WATER ONLY

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Catherine M. Crawford

Name and Title

LOMAN RURAL FIRE ASSOCIATION

Fire Department

(218) 278-6714

Phone Number

5/3/2008

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

615 Lake St. S. Fire Hall
Parking lot





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silv-ex	Yes	less than 5 gallon	Current
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Kreemer Fire Chief
Name and Title

Long Prairie Volunteer Fire Dept.
Fire Department

320-732-3883 4-30-08
Phone Number Date

lptfire at Embark mail.com.
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): every couple years

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

1350 W Co Rd 5
Lowville, MA





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): never or very seldom

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Unknown, in my 14 years on department, I do not recall using foam for training. We use foam only when absolutely necessary because of cost.



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	Angus	Seldom, if ever	~ 10gal	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Yetzer, Fire Chief

Name and Title

Lonsdale Fire Dept.

Fire Department

612-756-0281

Phone Number

4/27/08

Date

IndFire@meads.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

259 Medina Street North - Loretto, MN 55557



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3m</u>	<u>YES</u>	<u>5gal</u>	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JEFF LEUER ASST Chief
Name and Title

Loretto Fire Dept
Fire Department

763-479-3036 5/1/08
Phone Number Date

loretto public works@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Letrud chief

Name and Title

Louisburg

Fire Department

_____ 4/29/08

Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Loren Jansen Fire Chief
Name and Title

Lowry
Fire Department

320-283-5165 5-30-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

IN THE FIELD IN BACK OF FIRE HALL

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SILV - EX	YES	5 GAL	YES	YES
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

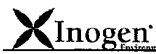
Questionnaire completed by:

LUTSEN FIRE CHIEF
Name and Title

LUTSEN TOWNSHIP FIRE DEPT.
Fire Department

1-218-663-7501 6-4-08
Phone Number Date

LUTCLERK@BOREAL.ORG
E-Mail Address

 Fred Schmitt

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Grove St & 2nd Ave Lyle MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS LOCATIONS





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	Yes	10 gal	5 gal
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	Unknown	Yes	5	Historic
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Stevens	Yes	30 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

VINCENT FORSTNER
Name and Title

MADEIRA FIRE DEPT
Fire Department

507 642 3404 5/5/08
Phone Number Date

ffai@bevercomm.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Wayne Ahmann Chief

Name and Title

Mahnomen Fire Dept

Fire Department

218-935-5381 *6-10-08*

Phone Number

Date

NA

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Live fire training burns.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Angus			15 gals year
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Angus	yes	100 gals avg per 15 years	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Todd Rogers
Name and Title

Mahtomedi FD
Fire Department

651 775 6522 4/29/08
Phone Number Date

mahtomedi.fire@comcast.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): Not used in training

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): IF used on fire it would be on the ground

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We have not used class A foam yet for training. But we plan to at some point





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall Lawn 6661 Wilson Rd

OVER →



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltainv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Silvex</u>	<u>yes</u>	<u>2Gal</u>	<u>yes</u>	<u>yes</u>
Other	<u>Silvex</u>	<u>yes</u>	<u>2Gal</u>	<u>yes</u>	<u>yes</u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Skute Chief
Name and Title

MAKINER Fire Dept
Fire Department

218-780-9353 6/4/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Station #1 - 300 Madison Ave, mn





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? <u>Yes</u> or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	yes	5-10 gal.	Hist.
Class B Alcohol-Resistant (AR)-AFFF	Angus Alcosal	yes	5-10 gal	Current
Class B Protein	?			Hist - decades ago
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Silver-ef	y	5 gal	current
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Al Ratzloff Deputy Director - Fire
Name and Title

Mankato
Fire Department

507-387-8703 4/29/08
Phone Number Date

aratzloff@city.mankato.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): 100 gallons

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

- ① Maple Grove Station 5 - 6900 Cannonville Ln
Maple Grove MN 55369
② Maple Grove Station 2 - 13450 Maple Knollway
Maple Grove MN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- ONCE Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- 5 YRS. AGO Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

GUNBLINT TRAIL FIRE HALL - GUNBLINT TRAIL & WAHLSTROM RD
@ 5 mi NORTH OF GRAND MARAIS, MN.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SILV-EX	75451	465	0	0
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ed Hoostrom Fire Chief
Name and Title

Maple Hill Vol. F.D.
Fire Department

218-387-1530 (Home No.) MAY 30, 08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event? *N/A*

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? *N/A*

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>SILV-EX</u>	<u>NO</u>	<u>1-2 Gallons</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim TROY SEC
Name and Title

MARBIE FIRE DEPT
Fire Department

218-247-7885
Phone Number

6/4/08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

201 JUDD STREET MARINE ON ST. CROIX

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	LESS THAN 10 GAL.		
Class B Alcohol-Resistant (AR)-AFFF	N/A				
Class B Protein	N/A				
Class B Fluoroprotein (FP)	N/A				
Class B Film-Forming Fluoroprotein (FFFP)	N/A				
Class B AR-FFFP	N/A				
Class A-B Hi Expansion Foam	N/A				
Class A Training Foam	? VARIES	NO	10-20 GAL	YES	YES
Other	ANGUS ?	YES	5-10 GALLONS	YES	YES

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID DENN, CHIEF

Name and Title

MARINE ON ST. CROIX

Fire Department

651-433-2801

Phone Number

5/28/08
Date

E-Mail Address

DDENN@NSBSA.ORG



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>3m</u>	_____	_____	<u>0</u>	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Silvex</u> <u>Trainol</u>	<u>No</u> <u>Yes</u>	<u>15gals</u>	<u>1</u>	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Marc A. Klaska Chief
Name and Title

Marshall Fire Department
Fire Department

507-532-5141 6-3-08
Phone Number Date

marshallfire@iw.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

The Marshall Merritt Center City Rd 33

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): OR LESS

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

HOUSE BURNS



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	3M	YES	LESS THAN 5 GAL	
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____ **ROD MAETZOLD** _____
Name and Title

_____ **MAYER** _____
Fire Department

_____ **952-657-2291** _____ **4/28/08** _____
Phone Number Date

_____ _____
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Mable St and Sherman



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	Y	_____	Current
Training Foam	_____	_____	_____	_____
Other	Chem Guard	Y	_____	Historic

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steven Lindquist Chief
Name and Title

Maynard Mn
Fire Department

320-367-2140 4-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

LAST TRAINING WAS DONE IN A JUNK YARD





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	<i>Foam Stick Pyro Com TS TURBO</i>	<i>yes</i>		<i>Current</i>
	<i>Foam Stick Pyro Com TS ECO</i>	<i>yes</i>		<i>Current</i>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVE LIPPLIG FIRE CHIEF
Name and Title

MAZEPPA FIRE DEPT
Fire Department

507-843-3095 5-5-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

McKinley Vol Fire Dept



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall site 9955 Hwy 133

Hwy 133 & Hwy 7 intersection





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex	yes	20 gal.	historic
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltacnv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Flansburg chief

Name and Title

Meadowlands Fire dept.

Fire Department

218-427-2333

Phone Number

5/1/08

Date

tim.flansburg2000@yahoo.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltacnv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- 1/4th Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- None
- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

No TRAINING USAGE THIS FAC





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
<input checked="" type="checkbox"/> Class A Training Foam	Silvex	No	Less than 1 Gal	Less than 1 year 5 years
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JACK GARBERG FIRE CHIEF
Name and Title

MEDICINE LAKE FIRE
Fire Department

767-642-9701 5/5/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FD does not use foam for training due to cost

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	NA				
Class B Alcohol-Resistant (AR)-AFFF	NA				
Class B Protein	NA				
Class B Fluoroprotein (FP)	NA				
Class B Film-Forming Fluoroprotein (FFFP)	NA				
Class B AR-FFFP	NA				
Class A-B Hi Expansion Foam	NA				
Class A Training Foam	ANSUL	NO	20-50 Gallons	X	X
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JEREMY KRAEMER FIRE CHIEF
Name and Title

MELROSE FIRE DEPT
Fire Department

320-761-1187 5-27-08
Phone Number Date

CHIEF@MELROSEFIRE.ORG
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2nd Street & Hillside, Middle River MN.

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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>US Foam</u>	<u>Yes</u>	<u>2-5gal</u>	<u>Yes</u>	<u>Yes</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Peterson Chief
Name and Title

Middle River Fire Dept.
Fire Department

218-222-3706 5-27-08
Phone Number Date

mbone@wikitel.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard R. Wagner Chief
Name and Title

Millerville
Fire Department

320-815-1048 4-29-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

25 37 AVE NE

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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

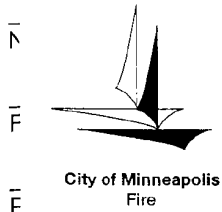
8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3-M</u>	<u>Yes</u>	<u>5</u>	<u>No</u>	<u>Yes</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>Amsul</u>	<u>No</u>	<u>-</u>	<u>Yes</u>	<u>-</u>
Class B Protein	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Class B Fluoroprotein (FP)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Class B Film-Forming Fluoroprotein (FFFP)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Class B AR-FFFP	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Class A-B Hi Expansion Foam	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Class A	<u>Amsul</u>	<u>Yes</u>	<u>5</u>	<u>Yes</u>	<u>-</u>
Training Foam	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Other	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:



Walt Lee
 Captain
 Engineering Officer

350 South 5th Street - Room 230
 Minneapolis, MN 55415
 www.ci.minneapolis.mn.us

office [612] 673-2059
 cell [612] 718-1859
 fax [612] 673-2828
 pager [612] 650-4273
 walter.lee@ci.minneapolis.mn.us

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Chubb NATIONAL Foam	NO	0	NO	Very Limited
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Silv-ex	NO	5 gal	yes	yes
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Sussner Fire Chief

Name and Title

Minnesota Fire Department

Fire Department

(507) 530-3499 6-5-08

Phone Number

Date

jeffsussner@centurytel.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Meyers Chief

Name and Title

Minnesota City Fire Dept.

Fire Department

689-2997 5/28/08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

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2222.0630



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

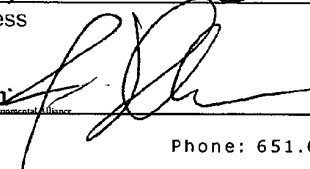
James Flanders, Assistant Chief
Name and Title

Minnetonka Fire
Fire Department

952-939-8334 28 April 2008
Phone Number Date

jflanders@eminnetonka.com
E-Mail Address

a member of
Inogen
Environmental Services



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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STATE_02821589

2222.0632



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): when we have an old lot of foam.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Station at 103 Canton Avenue, Montevideo, MN

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M Lightwater AFC 3206% 3M 37/6%	yes yes	1 gal 1 gal	yes yes	yes yes
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE 3x3	no	0	yes	no
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	yes	1 gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robb Gilkey

Name and Title

Fire Chief

Fire Department

Montevideo Fire Dept

Phone Number

Firedept@montevideomn.org

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

When we train with foam we use it in front of our fire hall on the apron we use less than a gallon for training usually through a foam backpack

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>very little</u>	<u>15 gal</u>	<u>x</u>	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

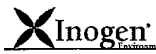
Lloyd Wiechmann
Name and Title

Chief
Fire Department

Montgomery Fire Dept
Phone Number

612-756-1837 Date 5-27-08

E-Mail Address

 MontyFire@Frontier.net

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

260 2nd st south monrose





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<i>Angus</i>	<i>NO</i>	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Angus</i>	<i>yes</i>	<i>less than 5 Gallons</i>	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Marketon *Fire chief*
Name and Title

Montrose Fire Dept
Fire Department

763-675-3717 *5-6-08*
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Moorhead Youth Hockey Arena
707 SE Main Ave
Moorhead MN 56560
(in the ditch, west of the arena)



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M AFF	No	0-5 gal	Historic
Class B Alcohol-Resistant (AR)-AFFF	National Foam	No	0-5 gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	silv-ex	Yes	20 g	Current
Class A	Unknown	Yes	0	Mix = unknown
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Wallin, Assistant Chief
Name and Title

MOOREHEAD FIRE DEPARTMENT
Fire Department

218-299-5440
Phone Number Date

JOEL.HEWITT@CI.MOOREHEAD.MN.US
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually

Other (please specify): We don't train with foam due to cost, but do use it maybe once a yr to make sure fireman know how to use it.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground

Other (please describe): PARKING LOT THAN WASHED TO GROUND OFF PARKING LOT

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

MOOSE LAKE FIRE HALL NORTH SIDE OF HALL
600 HWY 73 IN FRONT OF BAY DOORS
MOOSE LAKE, MN
55767



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silv-ex	X	Less than 20-25 gal	@ 20 gal/yr for structure fires
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve TRENHAILE CHIEF
 Name and Title
 MOOSE LAKE AREA FIRE PROTECTION DISTRICT
 Fire Department
 218-485-4242
 Phone Number
 4/30/08
 Date
 mooselakefiredept@hotmail.com
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Trap Range / City dump - A driveway of the end of
6th Street. Morgan mn. 56266.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silo-ex</u>	<u>YES</u>	<u>3</u>	<u>Current.</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Craig Huigas Fire Chief
Name and Title

Morgan Fire Dept.
Fire Department

507-249-2457 4-28-08
Phone Number Date

mgnfire@rednet.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Base Ball field 3rd St South West

Morris town mn

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	<input checked="" type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Protein	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Fluoroprotein (FP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B Film-Forming Fluoroprotein (FFFP)	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class B AR-FFFP	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A-B Hi Expansion Foam	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Class A	FDrexpan 5	yes	10 gal	yes	yes
Training Foam	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
Other	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Troy Dahle
Name and Title

Morrisdale mn
Fire Department

507-838-7241
Phone Number

6-1-08
Date

Dahle @ BevComm . Net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VACANT LOT CITY OF MOTLEY MAINTAINABLE
garage.
address: 196 E/EDRERE ST W.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>SILVEX</u>	<u>yes</u>	<u>than LESS 1911W</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TROY DAVIS FIRE CHIEF
Name and Title

MOTLEY FIRE DEPT
Fire Department

218-352-6172 EXT 252 5-21-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): USUALLY ONCE OR TWICE PER YEAR DURING LIVE BURN TRAINING EXERCISES

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS LOCATIONS AT LIVE BURN TRAINING - DEPENDS ON LOCATION OF STRUCTURE.

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
	<u>ANSUL - ANSULITE ARC</u>				
Class B Alcohol-Resistant (AR)-AFFF	<u>ALCOHOL RESISTANT</u>	<u>NO</u>	<u>5-10 GALLONS</u>		
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>ANSUL SILV-ex</u>	<u>YES</u>	<u>LESS THAN 25 GALLONS</u>	<u>10</u>	
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GREGORY S. PEDERSON FIRE CHIEF

Name and Title

MOUND FIRE DEPARTMENT

Fire Department

952-472-3555

Phone Number

May 30, 2008

Date

chief1@moundfire.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

EMPTY LOT ACROSS FROM 8866 SLATE ST.
MOUNTAIN IRON MN
55768



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	CHEM GUARD NATIONAL			
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	NO	0	0
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	10-20 GAL	YES WHEN APPLICABLE
Training Foam			TOTAL TRAINING + FIRES	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN N. NORVITCH ASST. FIRE CHIEF
Name and Title

MOUNTAIN IRON FIRE DEPT
Fire Department

218 750-7216
Phone Number Date

FIREDEPT@MTIRON.COM
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

 Myrtle ball field



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title
Murtle Fire Dept

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): never

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex	no	30 gal	current
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John J. Calagione Fire Chief
Name and Title

Nashwan
Fire Department

218-885-1042 4-26-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Street in front of fire hall 207 4th Street
Nassau



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex	yes	1 gal	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bradley Streich Fire Chief
Name and Title

Nassau Fire Department
Fire Department

320-668-2325 w 320-668-2635 H
Phone Number Date

4-30-08
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Larry Flom farm on Hwy. 56 north Kenyon.
39625 Hwy, 56 Dennison 55018. Burned down
old farm house. Last used 4 years ago.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Angus</u>	<u>No</u>	<u>∅</u>	<u>Yes</u>	<u>∅</u>
Training Foam	_____	_____	_____	_____	_____
Other	<u>Light Water ATC 3M</u>	<u>YES</u>	<u>∅</u>	_____	<u>YES</u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bret Showers

Name and Title

Nerstrand Vol. Fire Dept.

Fire Department

(507) 332-8000

Phone Number

6/3/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Our last training burn was March 29 2008
104 Miller St Nevis, MN 56467



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821619

2222.0662



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Silvex</u>	<u>yes</u>	<u>15 gal</u>	<u>10 gal</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kerry Swenson Fire Chief
Name and Title

Nevis Fire Department
Fire Department

218-652-2323 4/28/08
Phone Number Date

NevisFire@arcvig.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We do not utilize foam for any live fire training, as it is too hard to get additional fires going when foam is used

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3M	No	∅	∅	∅
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	No	∅	∅	∅
Class B Protein	NA	No	∅	∅	∅
Class B Fluoroprotein (FP)	NA	No	∅	∅	∅
Class B Film-Forming Fluoroprotein (FFFP)	NA	No	∅	∅	∅
Class B AR-FFFP	NA	No	∅	∅	∅
Class A-B Hi Expansion Foam	NA	No	∅	∅	∅
Class A Training Foam	Ansul	No	Sogel	∅	∅
Other	NA	No	∅	∅	∅

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Trevor Hamdorf - Captain
Name and Title

New Brighton DPS
Fire Department

651.288.4100 Phone Number 05/31/08 Date

trevor.hamdorf@newbrightonmn.gov
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Sand Fire chief
Name and Title

New Munich
Fire Department

320 761 2987 4-30-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

IN New Prague - (1) 11th Ave NW / 2nd Street NW
(2) Columbus Ave N / 12th Street NE





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Argus Hi Combat	yes	100 gal.	Current + Past
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Becker Fire Chief
Name and Title

New Prague Fire
Fire Department

cell 952-250-2424
Phone Number

5/1/08
Date

Becker311@aol.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*At our Fire hall in a open grass lot on its East side
 Loc. 203 Broadway Ave N New Richland MN
 closest cross street 1st St N.E.*

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>X</u>	<u>Less than 5 gal</u>	<u>X</u>	<u>X</u>
Training Foam	_____	_____	_____	_____	_____
Other	<u>Chemguard class</u>	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Svoboda
Name and Title

New Richland Fire, New Richland MN 56072
Fire Department

507-465-3700 Phone Number 5-29-08 Date

Svoboda4@Hickorytech.net
E-Mail Address

Work Home #1 Email not Fire hall



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): we don't

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): 0

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): to use up expired stuff - maybe every 3 yrs.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<i>Silverx</i>	<i>Yes</i>	<i>0</i>	<i>Current</i>
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	<i>Silverx</i>	<i>No</i>	<i>30</i>	<i>Current</i>
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Reed Jacobson, Chief

Name and Title

New York Mills Fire Department

Fire Department

208-639-2787 *5-2-08*

Phone Number

Date

nymfd@lakesplus.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

~~at~~ at Fire Hall

OVER →



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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>NO</u>	<u>5-10 gal</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	<u>Oxford 229 wetting agent</u>	_____	<u>5 gal</u>	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Rud Fire Chief

Name and Title

Newfolden Fire Dept

Fire Department

218-874-7135

Phone Number

Krud@wiktel.com

E-Mail Address

5/27/08

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): none

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): NA

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- N/A
- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- N/A
- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

AT MISSOURI FIRE DEPT PARKING LOT
NO FOAM USED AT TRAINING.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Angus	NO	10 gallons	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	Angus	NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Class B Protein	<input checked="" type="checkbox"/>				
Class B Fluoroprotein (FP)	<input checked="" type="checkbox"/>				
Class B Film-Forming Fluoroprotein (FFFP)	<input checked="" type="checkbox"/>				
Class B AR-FFFP	<input checked="" type="checkbox"/>				
Class A-B Hi Expansion Foam	<input checked="" type="checkbox"/>				
Class A Training Foam	Angus N/A	NO 10 gallons N/A	10 gallons N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other	N/A				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Shawn Bailey Training Officer

Name and Title

Nisswa Fire Dept

Fire Department

218-963-2442

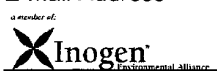
Phone Number

N/A

6-10-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Parking lot behind our fire station #2
at 1825 Howard Drive, North Mankato
Minnesota





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex # 75451	X	15 gal	Both
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Pohlman / Fire Chief

Name and Title

North Mankato, MN

Fire Department

507-625-5378 4-28-08

Phone Number

Date

nmfdchief@northmankato.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

North St. Paul Public Works
2303 1st Street N. North St. Paul, MN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water	Yes	5gal.	both
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3M Light Water (SFFF)	Yes	15gal	both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Mallinger Deputy Fire Chief

Name and Title

North St. Paul Fire Department

Fire Department

651-747-2552 4-28-08

Phone Number

Date

jmallinger@ci.north-saint-paul.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Upon New delivery of Apparatus every 5 years
Have not trained on Foam in 10-15 years
We may use 5 gallons during the year. Class B.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Street Shop 1710 Riverview Drive





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		NO	-0-	-0-
Class B Alcohol-Resistant (AR)-AFFF	3M ATC 3%-6%	NO	-0-	30 gallons <i>Last 20 years</i>
Class B Protein		NO	-0-	-0-
Class B Fluoroprotein (FP)		NO	-0-	-0-
Class B Film-Forming Fluoroprotein (FFFP)		NO	-0-	-0-
Class B AR-FFFP		NO	-0-	-0-
Class A-B Hi Expansion Foam		NO	-0-	-0-
Class A	Chemguard Silver-EX	NO	80 gallon	300 gallons <i>Last 10 years</i>
Training Foam	-0-	NO	-0-	-0-
Other		NO		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mitchell Dewar Captain / Training officer
Name and Title

Northfield Fire Dept
Fire Department

507-271-4566 4-28-08
Phone Number Date

mdewar@ci.northfield.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall 7271 Hwy. 53 Canyon, MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Northland F.D.
Name and Title

Canyon
Fire Department

Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Behind Fire hall 211 North Bridgeman

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	<i>PYROCOM STICK</i>	<i>yes</i>	<i>1 stick</i>	_____	<i>2 sticks</i>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GORIE MARTINSON Chief

Name and Title

Northrop

Fire Department

507-399-3228 *6-4-08*

Phone Number Date

nfd.firedp@yahoo.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

19900 Nightengale St NW City hall parking
lot water run's into soccer fields

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Arbus Fire power	Yes	100 gal	50 gal	80 9 gal
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rob Engler Captain
Name and Title

OAK Grove Fire
Fire Department

763-434-6485
Phone Number

6-1-08
Date

Rob Engler At Q. Com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

6633 - 15th ST. N. - Fire Station

5000 Hadley Ave N, - Fire Station.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	Delta Angus	NO	0-5gal	yes	yes
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Angus	yes	30-50gal	yes	yes
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Anderson, Fire Chief
Name and Title

Oakdale
Fire Department

651-731-8886
Phone Number

Jeff.anderson@oakdalefire.com Date 5/29/08
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Limits





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	Sil-Vex	yes	5 gal/m	_____
Class A Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

 Name and Title Secretary

 Fire Department Farm Fire Dept

 320 273-2279 5-10-08
 Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

111 No. 1st Street, Odin Mn 56160





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silox	yes	Spal.	Minimal < 10g
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL S. BERG, SECRETARY
Name and Title

Odin Fire Department
Fire Department

507-736-2691 04/28/08
Phone Number Date

hackerins@frontier.net.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 5 or 6 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
- Semi-Annually Annually Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- 1 Less than 5 gallons 5 gallons 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Normally it is in the country at a vacant farm site or on a city street or service lane or business parking lot for auto fires.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	(Ansulite or) ANGUS	yes	5 gallons	yes	yes
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	ANGUS	yes	10 gallons	yes	yes
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Joe Hennen Chief

Name and Title

OLIVIA, MN Volunteer fire Dept.

Fire Department

320-523-2361 (City Hall) Date 5-29-08

Phone Number

jhennen@coopcountry.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Ortonville Airport - East on Hwy 12
Ortonville MN 56278
Pro Auto - 547 US Hwy 12
Ortonville MN 56278



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

South Maple St - Ottentail city

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>1st defense</i>	<input checked="" type="checkbox"/>	<i>0-5</i>	<input checked="" type="checkbox"/>	<i>15</i>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Myron Lueders, chief
Name and Title

Ottertail
Fire Department

218-367-2160 *5/31/08*
Phone Number Date

emyl4@arvig.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

PARISADE FIRE HALL
48052 NATURE AVENUE
PARISADE MN 56469





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>SILV-EX</u>	<u>YPS</u>	<u>10gals</u>	<u>10gals</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRUCE ROBINSON CHIEF

Name and Title

PALISADE

Fire Department

218-845-2736 1 MAY 2008

Phone Number

Date

ROBINSON@FRONTIER.NET.NET

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

4547 Hwy 100, Arden, MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	Yes	< 5 gals	None
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Edward Kipley
Name and Title

Palo Regional Fire Dept
Fire Department

(H) 218-229-2867 (C) 218-780-2662
Phone Number

5/8/2008
Date

Kipleye@Co.St-Louis.MN.US
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Silv-ex</u>	<u>Yes</u>	<u>25gallons</u>	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Simonsen Chief
Name and Title

Parkers Prairie Minnesota
Fire Department

218-338-4115 (City Clerk office) 4-30-08
Phone Number Date

Fortwengler electric @ Hotmail.com or Simonsays @midwestinfo.net
E-Mail Address



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City Airport





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Chemguard AR3%		Cess tank legal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Silvex 0.1 to 1.0%			
Other	Pyrocom TS-ECO			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jack Winter Fire Chief

Name and Title

Paynesville Fire Dept.

Fire Department

320-243-3714

Phone Number

Date

jwinter@lakedalelink.net 4-28-08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2nd Ave NW of 4th St





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	U.S. First Strike	yes	5 gal	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	5 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Trevor Steeves Fire Chief

Name and Title

Pelican Rapids

Fire Department

218-863-5211

Phone Number

4/28/08

Date

~~PRFD@pelicanrapids.com~~ PRFD@loretel.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

W Alankie Ave Old Elevator Lot.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Argus High Contact</u>	<u>yes</u>	<u>5gal</u>	<u>Minnesota Fire Fighting</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Schackman Chief
Name and Title

Pennock Fire Dept Pennock Mn 56279
Fire Department

320-599-4139 5-7-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): We don't use foam for training

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): No foam on training drills.

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We haven't used foam for training in at least
3yrs maybe more.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Lite water 3M</u>	<u>NO</u>	<u>we haven't</u>	<u>used B foam in 10 yrs</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>NO</u>	<u>depends on how many fires</u>	
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Nelson Fire Chief
Name and Title

Pequot Lakes Fire
Fire Department

(218) 568-8201 4/29/08
Phone Number Date

pequotfd@pequotlakes-mn.gov
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2779 Big Lake Rd



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JEFF LOE - FIRE CHIEF

Name and Title

PERLEY - LEE TOWNSHIP FIRE AND RESCUE

Fire Department

701 - 238-0784 5-1-08

Phone Number

Date

JLOE@LR.COM

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Green Terrace Trails Park

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>Silver</i>	<i>X Yes</i>	<i>5 gal 10 gal</i>	<i>yes</i>	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin Schneider Asst. Chief
Name and Title

Pickwick Fire Dept
Fire Department

507-454-2263 Phone Number *05242008* Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*2005 Last practice using foam at practice
Intersection of 25 and 27 Hwy Mn. 56364*

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	<i>Prim-Mixing & MFG</i>	<i>Annual</i>	<i>—</i>	<i>—</i>	<i>NA</i>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>Silvex</i>	<i>no</i>	<i>25</i>	<i>NA</i>	<i>NA</i>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Jay Boser *fire chief*
Name and Title

Pierre Fire Dept
Fire Department

320-468-6608 *5-27-08*
Phone Number Date

pierzfire@myweb.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): 3 To 4 YEARS

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A Different spot each time





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-EX	YES	LESS 1 GALLON	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Lee - Chief
Name and Title

PILLAGER AREA FIRE AND RESCUE
Fire Department

218-746-3681 Phone Number 4-29-08 Date

www.Pillagerareafire@scicable.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus Combater / Silverx	NO	100 gal	_____
Training Foam	Angus Silverx training	Yes	5 gal	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Miller Chief

Name and Title

Pine City Fire Dept

Fire Department

320 629 7405 5-2008

Phone Number

Date

Tom Miller @ Youbet.net.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): less than bi-annually

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Park grounds - 1st St. Pine River

School grounds - 1st St. " " "

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>Ansulite</u>	_____	_____	<u>yes</u>	<u>yes</u>
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>yes</u>	<u>30 gal.??</u>	<u>yes</u>	<u>yes</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KEITH FARNAM, CHIEF

Name and Title
PINE RIVER

Fire Department
218-587-2131

Phone Number
prf@56474@yako.com

E-Mail Address
5/27/08

Date

Inogen
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

118 2nd AV N.E. @ 1400 Block of
Apache Rd. in Pipestone Mn.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>yes</u>	<u>20gals</u>	<u>Fire Fighting and Training</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Otten Fire Chief
Name and Title

Pipestone Fire
Fire Department

507-215-0561 cell 5-5-08
Phone Number Date

Mark.otten@iw.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

VARIOUS SITES AROUND THE CITY OF PLAINVIEW
WE ALSO CONTACT THE SANITARY SEWER PLANT
TO INFORM THEM THAT WE HAVE USE FOAM.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>SilvTex</u>	<u>Yes</u>	<u>10 GAL</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ed JACOBS Fire Chief
Name and Title

Plainview Fire Dept
Fire Department Chief Cell

507-534-3242 507-859-7348 5-27-8
Phone Number Date

Firedept@Plainview.mn.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	Angus Hi Combat Super	yes	5-10 Gallons	yes	yes
Class A	Angus Hi Combat	yes	5-10 Gallons	yes	yes
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Heipel Chief

Name and Title

Platteau Fire Dept.

Fire Department

320-583-6093 5-24-08

Phone Number Date

heipel@nccambulance.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Porter Fire Hall 301 Lone tree Street Porter MN

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Silv-ex</u>	<u>yes</u>	<u>5 gal</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Class B Alcohol-Resistant (AR)-AFFF	<u>Chemguard</u>	<u>yes</u>	<u>5 gal</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Patrick Vlamnick Chief
Name and Title

Porter Fire Dept.
Fire Department

507-296-4475 5-27-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): IN 15 yrs THAT I HAVE BEEN A MEMBER

WE'VE USED CLASS A, 1 TIME TRAINING, 1 TIME FIRE + CLASS B 1 TIME TRAINING.

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FILLMORE COUNTY FAIRGROUNDS
FILLMORE STREET Co. Hwy 12
PRESTON MN 55965





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	Y	5GAL/MES PER YEAR	NONE
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	N	5GAL/@ 5 YRS AGO	NONE
Training Foam CLASS A	CARBY'S FIRST STRIKE	Y	5GAL/@ 10 YRS AGO	NONE
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JERRY OLSON CHIEF

Name and Title

PRESTON FIRE DEPT

Fire Department

!HALL* 507-765-3801 Home* 507-765-3327 5-7-08

Phone Number

Date

E-Mail Address

jolson002@centurytel.net



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes *Siphon System*
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

*VARIOUS LOCATIONS mostly in Country - Gravel Roads
old Farm sites*



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-ex	yes	10 gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Sportel Fire Chief
Name and Title

Fire Department
Prinsburg Fire Dept
Phone Number
320-978-8040

Date
5-2-08

E-Mail Address
bsportel@prinsburgcop.com



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

EPHRAIM CREEK AVE @ ARCADIA AVE (NW CORNER) SPRING 2007





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	No	0-5GAL	FUEL SPILLS
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	CHEMGAURD	Yes	50 GALS	STRUCTURE FIRES
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DOUG HARTMAN, FIRE CHIEF
Name and Title

PRIOR LAKE
Fire Department

952-440-3473 5-1-08
Phone Number Date

DHARTMAN@CITY OF PRIOR LAKE.CEM
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	JEF-X	NO	5-10 GALS	CAL FIRES
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	NO	15 GALS	House Fires
Training Foam				House Fires
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Benson Fire Chief

Name and Title

Proctor Fire

Fire Department

218 228 6787

Phone Number

5-11-2008

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Very Seldom

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Can't remember the last training





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus - Trido 1	No	Minimal	Minimal
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	High Combat A (Angus)	No	50 gal.	Current
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Kapler Fire Chief
Name and Title

Ramsay
Fire Department

763-433-9859 4/28/08
Phone Number Date

dkapler@ci.ramsay.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): very little

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

at Fire Station, lot across street





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Silvex</i>	<i>NO</i>	<i>30 gals</i>	<i>Structure</i>
Training Foam	_____	_____	_____	_____
Other	<i>Phosrom A4B (sticks)</i>	<i>NO</i>	<i>1-B/2-A</i>	<i>can fires + wildland</i>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2009 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAT BOONE Fire Chief

Name and Title

Randall

Fire Department

320-360-5240

Phone Number

4-29-08

Date

patrick.j.boone@us.army.mil

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No *WE HAVE FOAM TANK ON ENGINE BUT NOT COMPRESSED AIR*

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

I + USED AT LIVE BURN TRAINING.
THE ADDRESS IS DIFFERANT EVERY YEAR.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M 3% - 6%			
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX			
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ARNE RAUVOJA Fire Capt. Equip Chair

Name and Title

RANDOLPH HAMPTON FIRE

Fire Department

507 243-3797 6-5-2008.

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): foam used for actual fires only

5. How much foam is used per training event?

- N/A
- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- N/A
- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A



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 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	<i>silv-ex / Angus</i>	<i>N</i>	<i>10 gal</i>	<i>Current</i>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Schneider Interim Chief

 Name and Title

Red Wing Fire Dept

 Fire Department

651 / 388-7141 *4/28/08*

 Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Redwood CATY





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silv-ex	X	5991	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK MABELS CHIEF

Name and Title

Redwood Falls Fire Dept

Fire Department

507-627-8417

Phone Number

Date

5-10-08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

316 MAIN ST. E. REMER MN.
56672





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi-Expansion Foam	_____	_____	_____	_____
Class A Training Foam	SILV-EX	Yes	50 gal	Total - INC. Fires
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Swentkofske Chief

Name and Title

Remer

Fire Department

218 566 2600

Phone Number

5/1/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually ?
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	190 3m Light water	yes	(12 gal)	H
Class B Alcohol-Resistant (AR)-AFFF	3-6 3m Light water	yes	9gal	H
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	S.T.V - EK/National	yes	5gal	C
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Fairchild / chet

Name and Title

Robbinsdale

Fire Department

763-531-1000 5.19.08

Phone Number

Date

m.fairchild@ci.robbinsdale.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

(Class A Foam only)

Rochester Fire Station	1	5. Broadway & 6th St., Rochester MN
"	2	Silver Lake Dr & 7th St N.E., Rochester MN
"	3	2755 2nd St. SW. Rochester MN
"	4	1875 41st St. NW Rochester MN

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2021 41st NW Rochester MN

We currently use a product called F-500 which is an emulsifier in place of foam. We have foam in stock but use it less often than we did 5 yrs ago.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M	yes	5	
Class B Alcohol-Resistant (AR)-AFFF	—			
Class B Protein	—			
Class B Fluoroprotein (FP)	—			
Class B Film-Forming Fluoroprotein (FFFP)	—			
Class B AR-FFFP	—			
Class A-B Hi Expansion Foam	—			
Class A	3M	yes	5	
Training Foam				
Other	emulsifier	no F-500 yes	25	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Slavik Deputy Chief

Name and Title Rochester F.D.

Fire Department 507 328 2813

Phone Number 4/30/08 Date

E-Mail Address dslavin@rochestermn.gov



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

111 Broadway Rollingstone MN 55569





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS	YPS	5-10 GAL	—
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Jacobi Chief

Name and Title

Bullingstone MN

Fire Department

507-459-0481

Phone Number

4-29-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): *Just recently purchased a new pumper with class A foam - Haven't had much opportunity to use it yet.*

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Very small amount was used for training at the fire station, in the yard





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Ansal Sylvex</i>	<i>Yes</i>	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

AL Mullenbach - Asst Chief

Name and Title

Rose Creek Volunteer Fire Dept

Fire Department

507-437-4283

Phone Number

5/6/08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Roseau County Fairground's Field
Main Ave North

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Chemguard</u>	<u>X</u>	<u>20gal</u>	<u>15gal</u>	<input checked="" type="checkbox"/>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Timothy A. Skime CHIEF
Name and Title

Roseau
Fire Department

218-463-0750 6/10/08
Phone Number Date

taskime@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls? *Used 30 times per year on structure fires*

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): *We do not use foam during trainings*

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We do not use Foam for training only real Fire incidents



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Neil Sjostrom Fire Sghte
Name and Title

Roseville Fire Dept.
Fire Department

657-792-7009 4/28/08
Phone Number Date

Neil.Sjostrom@ci.roseville.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

14700 Shanna Pkwy



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	<u>F-500</u>	<u>NO</u>	<u>5-15 gal</u>	<u>Current</u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

SCOTT AKER Chief

Name and Title

Rosemount

Fire Department

651-322-2066 4/28/08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	ANGUS	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom WEINAND
Name and Title TOM-WEINAND CHIEF

ROYALTON FIRE DEPT
Fire Department

Phone Number _____ Date 5/26/08

E-Mail Address _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Q

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Q

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE STATION 325 W 5TH ST RUSH CITY MN 55069



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS <u>ANGUS</u>	NO	Q	
Class B Alcohol-Resistant (AR)-AFFF	ANGUS <u>ANGUS</u>			
Class B Protein	ANGUS <u>ANGUS</u>			
Class B Fluoroprotein (FP)	ANGUS <u>ANGUS</u>			
Class B Film-Forming Fluoroprotein (FFFP)	ANGUS <u>ANGUS</u>			
Class B AR-FFFP	ANGUS <u>ANGUS</u>			
Class A-B Hi Expansion Foam	ANGUS <u>ANGUS</u>			
Class A	<u>ANGUS</u>	NO	<u>606AK</u>	
Training Foam	<u>Dreft Laundry Soap</u>	YES	<u>Sqats 75</u>	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Nelson Asst Chief
Name and Title

Rush City Fire Dept
Fire Department

320-358-4743 Phone Number 05/04/08 Date

NA
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

open lot in Industrial Park Coldusac on Enterprise
Drive

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Silv-ef</u>	<u>X</u>	<u>15 gal</u>	<u>5 gal</u>	<u>15 gal year</u>
Other	<u>Silv-ef</u>	<u>X</u>	<u>5 gal</u>	<u>0</u>	<u>5 gal year</u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael EBNER Rushford Fire Chief
Name and Title

Rushford Fire Dept
Fire Department

507-864-7206 Home 6/2/08
Phone Number Date

MEBNER@AceGroup.cc
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

city dump





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	silv-ex	yes	2 gals	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry L Lyplkes chief
Name and Title

Rushmore Fire Dept
Fire Department

507-478-4338
Phone Number

507-478-4338
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): don't use during training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

(Russell, Mr 56169)

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

→ Foam is too expensive to use for training

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Silvex	NO	5 gallons	?	Depends on amount OF FIRES
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL Beck Chief
Name and Title

Sacred Heart Fire
Fire Department

320-765-2292 Fire Hall Date 6-5-08
Phone Number

None
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

SANDSTONE FIRE HALL - 114 MAIN ST. SANDSTONE, MN

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	SILVER	X	50 GALLONS	✓	✓
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Andy P. Andrews
Name and Title

SANDSTONE FIRE DEPARTMENT
Fire Department

320-245-2155
Phone Number

Andy Andrews / @gmmac.com
E-Mail Address

Date 5/27/08



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Maybe Yearly or Bi Yearly -

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

open Area in the City -





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Argent ALCO Seal 3-070	No	Not used	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Argent Foam Lig	No	40 bales	Fire ball only
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Helm Fire Chief

Sartell - LeSault Fire Dept.

Fire Department

320 - 258-7371 Phone Number Fax 320-656-1407 Date

Apr. 13 2008

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never
Weekly
Monthly
Quarterly
Semi-Annually
Annually
Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons
5 gallons
5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer
Sanitary Sewer
On-Site Septic
Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.

OVER ->



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silverex</u>	<u>NO</u>	<u>15 Gall</u>	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Polopnick Chief
Name and Title

Sauk Centre Fire Department
Fire Department

320-352-2203 6-2-08
Phone Number Date

Keith.Polopnick@ci.sauk-centre.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

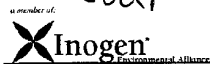
- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Sauk Rapids High School
 1835 Osauka Rd
 Sauk Rapids MN. 56379

- we do not use actual foam for training.

Because of Budget Issues, we use Dawn Dish Soap for training. it has been at least two years since we applied foam on a fire.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Dawn dish Soap</u>	<u>yes</u>	<u>1- Bottle</u>	<u>Current</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tony Hommerding Chief, SRFD
Name and Title

Sauk Rapids Fire Dept.
Fire Department

320-980-4808 - Chiefs cell 4-29-2008
Phone Number Date

thommerding@charter.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall
3518 320th St.
Cushing MN. 56443





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Yes	No	0	
Class B Alcohol-Resistant (AR)-AFFF	-			
Class B Protein	-			
Class B Fluoroprotein (FP)	-			
Class B Film-Forming Fluoroprotein (FFFP)	-			
Class B AR-FFFP	-			
Class A-B Hi Expansion Foam	-			
Class A	yes	yes	25 gal	est. purchase / year
Training Foam	-			
Other	-			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Zahler Chief

Name and Title

Scandia Valley FP

Fire Department

218-575-3111 5-8-08

Phone Number

Date

stevez@brainerd.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): one time

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

not sure - when tested new truck
Dewey Av - Scanton





QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Never Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Tofte Patch - OLD Hwy 61 -

OVER ->



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>chemguard</u>	<u>Yes</u>	<u>10 GAL.</u>	<u>Yes</u>	<u>Yes</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PHIL BONIN - chief

Name and Title

SCHROEDER FIRE DEPT.

Fire Department

218-663-7522 (H)

Phone Number

663-7756 Hall

Date

SFIRE@Boreal.org

E-Mail Address

6-7-08



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

main & Oak St. Seaforth, MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<u>Trainol</u>	<u>yes</u>	<u>less than 5 gal.</u>	<u>current</u>
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Deb Wilson
Name and Title

Seaforth
Fire Department

507-984-5956 4/30/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Barry Bouwman, Fire Chief
Name and Title

Sedan Fire & Rescue
Fire Department

320-424-0194 5/28/08
Phone Number Date

barry.bouwman@co.pope.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Semi-Annually
- Weekly
- Annually
- Monthly
- Bi-Annually
- Quarterly
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

MAIN & 2nd St. East

1-End TEM Practice Area Rd.

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	SILVER	YES	5000	5000	5000
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

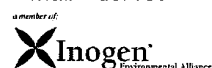
Questionnaire completed by:

Bob Schuman Fire Chief
Name and Title

Stensness Fire Dept.
Fire Department

607.764.6501 5/29/08
Phone Number Date

sfcd@chandlerintermt.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): NONE

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>SILV-ex</u>	_____	<u>VERY LITTLE</u>	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DON ISAACS
Name and Title

TREASURER
Fire Department

SILICA Voluntary FIRE Dept
Phone Number Date

218 263-9314 MAY 2 2008
E-Mail Address

NONE



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Almost never

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

near or in front of Fire Hall





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	Silvex + Hi Compat	NO	20 gal at Fires	20 to 30 Gallons per 5 year period
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Fredrickson Chief
Name and Title

Silver Bay
Fire Department

218-226-0059 5-12-08
Phone Number Date

Silverbayfire@lakeret.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- vehicle fire* 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

305 EAST Main ST - Public works material
Storage AREA - Gravel AREA

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Angus - Tridex</u>	<u>yes</u>	<u>3-5gals</u>	<u>yes</u>	<u>no</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

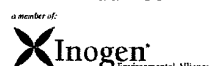
Questionnaire completed by:

Dale Kosek Assistant Chief
Name and Title

Silver Lake Fire Dept.
Fire Department

320 327 2412 5/29/08
Phone Number Date

dale.kosek@mchsi.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
[X] No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires, 25-50% of fires, 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly, Monthly, Quarterly, Semi-Annually, Annually, Bi-Annually, Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons, 5 gallons, 5 to 10 gallons, More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer, Sanitary Sewer, On-Site Septic, Ground, Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Four horizontal lines for providing training location information.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title Roger Hermandson (Chief)

Fire Department SK 1111

Phone Number 507 3884975 Date 5-3-08

E-Mail Address _____

member of
Roger B Hermandson
 5910 Rise Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event? *N.A.*

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? *N.A.*

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

NONE TOO EXPENSIVE TO WASTE

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>3M</u>	<u>NO</u>	<u>10 GAL</u>	<u>YES</u>	<u>YES</u>
Class B Protein	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class B Fluoroprotein (FP)	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class B Film-Forming Fluoroprotein (FFFP)	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class B AR-FFFP	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class A-B Hi Expansion Foam	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Class A	<u>SILV-EX</u>	<u>NO</u>	<u>20 GAL</u>	<u>YES</u>	<u>YES</u>
Training Foam	_____	<u>NO</u>	<u>0</u>	<u>NO</u>	<u>NO</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

THOMAS MOLDASCHER CHIEF

Name and Title

SLEEPY EYE MINNESOTA

Fire Department

507-794-6652 5-27-08

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): once every 2 years

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

in Ditch by Fire Hall. We spray less than 1 gallon just to system test.

137 2nd St NW
Solway, Mn. 56678

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Unsure
 ... we use Sylvex
 and get it from Minn. DNR
 if you know what rating
 that would be ours too!
 So... that is
 Thanks

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin L. Larson (Treasurer) ... chief Not available
 Name and Title

Solway Rural Volunteer Fire Dept.
 Fire Department

Treasurer Work phone: 218-694-6292
 Phone Number Date 5-29-08

_____ - 0 -
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

4027 Munger Shaw Rd Cloquet MN 55720





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	<i>Chemguard</i>	<i>Yes</i>	<i>50 gal</i>	<i>also used in fires</i>
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Wayne Sulin, Fire Chief
 Name and Title
SDlway Township Volunteer Fire Department
 Fire Department

218-729-6304
 Phone Number

5/27/08
 Date

sdwayfd@hotmail.com
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None Used

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Not Used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANSUL Lite	NO	5gal	
Class B Alcohol-Resistant (AR)-AFFF	ANSUL Lite	NO	5gal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	NO	20gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robert M. Switch Fire Chief

Name and Title

South Bend Township Volunteer FD

Fire Department

507-345-4863 507-327-9433-cell

Phone Number

Date

SBFD@Junor.Com 4/29/08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

No Nothave, last trainings were with other depts.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	depends on fire calls	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus - HI Combat A	Yes	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Lemke - Chief

Name and Title

South Haven

Fire Department

320-309-0335

Phone Number

4-30-08

Date

BWSigns@hotmail.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes
 No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): NEVER USED IN TRAINING BEFORE

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silox	NO	unknown	0
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tige Sluka captain
Name and Title

Spicer Fire Dept.
Fire Department

320-796-2416
Phone Number

5/4/08
Date

Spicer Fire @ TDS.NET
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Rural sites - vary -

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	Angus	Yes (minimal)	Less than 5 gallons	✓	✓
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeffrey Ellingson / Chief
Name and Title

Spring Grove Fire Dept
Fire Department

507-450-7121 5-29-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): occasionally with new equipment

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

North Metro Fire Training Center
300 71st Ave
Fridley, MN 55432





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	ANSUL - A	yes	150 gal Approx	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

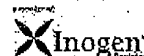
Questionnaire completed by:

Dan Anderson - Fire Fighter
 Name and Title

SBM Fire Department
 Fire Department

763-786-4430 4/30/08
 Phone Number Date

danderson@sbmfire.com
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

2800 Block of Anthony Lane South
 St. Anthony, MN. 55418

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>Ansulite</u>	<u>NO</u>	_____	<u>YES</u>	<u>5 gal.</u>
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>SILV-EX</u>	<u>YES</u>	<u>2-3 gal.</u>	<u>YES</u>	<u>30 gal.</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JOHN MALENICK FIRE CHIEF
Name and Title

St. Anthony Fire
Fire Department

617-782-3400 MAY 29, 2008
Phone Number Date

jmalenick@ci.saint-athony.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS: HI-COMBAT A	Y	10 GAL	BOTH
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

SCOTT NESVOLD SAFETY OFFICER
Name and Title

ST. BONE FIRE DEPT
Fire Department

952-446-1404 5.1.08
Phone Number Date

SBFIRE@FRONTIERNET.NET
E-Mail Address



[Signature]

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONS
Firefighting Foam

Nancy Rodning

651-639-9473

*From
St. Charles FD*

*From
Jim Strick*

1. Does your Department currently or has your Department historically use firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Co

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

WINDOMIA COUNTY FAIR GROUNDS, ST. CHARLES, MN.

ST. CHARLES CITY SHOP, ST. CHARLES MN

OVER →





MAY 30 2008

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	ANGUS	YES	5 gal	X	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeremy Neumann asst. Fire Chief
 Name and Title

St. Charles Fire + Rescue
 Fire Department

507-932-4090
 Phone Number

5-28-08
 Date

ldpETE4@yahoo.com
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City of St. Clair





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

St. Clair

Fire Department

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): 20 gallons foam + about 40 gallons of training foam

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Open field near Sta. 2, 700 41st Av N

Sta. 1550 45th Av SE - Airport Sta.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	<i>Chemguard</i>	<i>yes</i>	<i>20</i>	<i>Current</i>
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	<i>Chemguard</i>	<i>yes</i>	<i>40</i>	<i>yes</i>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean WROBBEL - Deputy Chief
Name and Title

ST. CLOUD
Fire Department

370 - 650 - 3528 *4/28/08*
Phone Number Date

dean.wrobbel@ci.stcloud.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

Only Car Or Structure

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

City parking lot

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	Angus	Y	25 gal	Y	Y
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Angus	Y	75 gal	Y	Y
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Pace - Fire Chief
Name and Title

St. Francis fire
Fire Department

763 753 2334
Phone Number

10/10/08
Date

Kpace10@aol.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

361



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Bi-Annually
- Quarterly
- Semi-Annually
- Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): In House That we Burn

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

11th St South House we burned Down For Training

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<i>Silver ex</i>	<input checked="" type="checkbox"/>	<i>390L</i>	<i>yes</i>	<i>just got the truck 3 years ago</i>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Monneus Chief

Name and Title

ST James Fire Department

Fire Department

507-375-1220

5-29-08

Phone Number

Date

ST James Fire Chief @ jmonneus@stjamesfire.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

 PARKING LOT ON EAST SIDE OF CAMPUS (SCIENCE LOT #2)





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	LESS THAN 1 CUP	SPRING 04 2 GALLONS
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A		yes	1 CUP	FALL 07
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JAY BOHAN - FIRE CHIEF / ASSISTANT SAFETY DIRECTOR

Name and Title

ST. JOHN'S UNIVERSITY

Fire Department

(320) 363-2742

Phone Number

6-11-08

Date

JBOHAN@CSBSJU.EDU

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Typically done in gravel parking lots on outskirts of the city





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	AMG	Both	10-15 gal	10-20 Gal/yr.
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kandy Torburg Fire chief.
Name and Title

St Joseph Fire Dept
Fire Department

(320) 229-1570 4-28-08
Phone Number Date

stjoe fire@hotmail.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821811

2222.0854



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Kloos — Fire Chief
Name and Title

St. Leo
Fire Department

507-829-7035 5-1-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Don't use for training

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training?</u> <u>Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Ansu Lite</u>	<u>No</u>		<u>Petroleum FIRES</u>
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	<u>SILVER</u>	<u>No</u>		<u>Structure FIRES</u>
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltacnv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Windschitl Assistant Chief
Name and Title

St-Louis Park Fire
Fire Department

952-924-2169 05-14-08
Phone Number Date

mwindschitl@stlouispark.org
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltacnv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Very Little

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Dept Park Lot





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>No</u>	<u>1 gallon</u>	<u>Do NOT USE MUCH FOAM AT ALL</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Schaefer Secretary
Name and Title

ST MARTIN
Fire Department

(320) 548-3569 5-5-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): when we have a recruit Academy
(APROX. every 18 months)

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

1683 Energy Park Drive St. Paul MN 55108





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Marathon Petroleum LLC 100 3rd Ave ST Paul Park
MN 55021 Training Grounds



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	<u>3 M Light Water</u>	<u>Yes</u>	<u>5 To 10 gals</u>	<u>< 50 gals</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MICHAEL NIEHAUS Asst Chief
Name and Title

ST Paul Park Fire Department
Fire Department

651 459 9918 4-28-2008
Phone Number Date

sppfdassistantchiefa@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>ARKUS FIRE POWER</u>	<input checked="" type="checkbox"/>	<u>50 GAL</u>	<u>20 GAL</u>	<u>35 GAL</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Windy Skok - FIRE CHIEF
Name and Title

ST PETER FD
Fire Department

507-934-1120 28 MAR 08
Phone Number Date

stpfire@mn.gov, tech.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current use.

26th Ave SE St Stephen MA

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	Angus Hi Contact A	Yes	20 gal	Yes	Yes
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Dracs Asst Chief

Name and Title

St Stephen Fire + Rescue

Fire Department

320 251-0946 6-2-08

Phone Number

Date

Fire Station @ SFD.ORG

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

30785 FOREST BLVD STACY, MN 55079
EAST SIDE OF FIRE STATION IN PARKING AREA





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Angus Hi-Combat	YES	30 GAL.	CURRENT
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KERRY OLSON FIRE CHIEF
Name and Title

STACY-LENT AREA VOL. FIRE DEPT
Fire Department

651-462-3389 5-3-08
Phone Number Date

STACYLENTFIRE@FRONTIERNET.NET
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

usually used in a field with old
farm structures - abandoned lots -





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Ansul/A^oM Silver</u>	<u>Yes</u>	<u>5 gal</u>	<u>Current</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Breith Fire chief
Name and Title

Staples Fire Dept
Fire Department

218-894-2550 5-8-08
Phone Number Date

NAPA Staples@yahoo.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): 2-3 times / year

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Prior + Martna St. Stewart, MN

Hall St. + Winona St. Stewart





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Universal Gold 113 gal	NO	Less than 5 gal	N/A
Class B Alcohol-Resistant (AR)-AFFF	GANSULITE ARC 3+69	NO	Less than 5 gal	N/A
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	YES	10-50 gal	N/A
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Nelson Fire Chief

Name and Title

Stewart Fire Department

Fire Department

370-562-2800 5-5-08

Phone Number

Date

Stewart_Fire@hotmail.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): not used for training

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<i>3M light water</i>	<i>NO</i>	<i>5-10 gal</i>	
Class B Alcohol-Resistant (AR)-AFFF	<i>3M</i>	<i>NO</i>	<i>5-10 gal</i>	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Wolf - Fire Chief

Name and Title
Stewartville Fire Dept.

Fire Department
507-533-8711 *4/30/08*

Phone Number Date
Steven.wolf@state.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

TRAINING HELD AT FOLLOWING (MAJORITY)

STILLWATER FIRE	216 N- 4TH ST.	STILLWATER	MN.	55082
OLD PUBLIC WORKS	216 N- 5TH ST.	"	"	"
NEW PUBLIC WORKS	3325 BOUTWELL RD.	"	"	"



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	ANSUL Lite	NO	0-1 Gallon	Current
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-ex	YES	Approx - 20 5 Gall. kits	CURRENT
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CMAD JANSEN CAPTAIN

Name and Title

STILL WATER FIRE DEPT.

Fire Department

651-351-4950

5/2/08

Phone Number

Date

cjansen @ ci. stillwater. mn. us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never Weekly Monthly Quarterly

Semi-Annually Annually Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Feldman
Name and Title

James Feldman Asst. Chief
Fire Department

Sunburg Vol. Fire Dept.
Phone Number Date

320 366 3518 5-29-08

E-Mail Address
None



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

inside of fire fighting area for fire Dept
which covers different townships





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Silvex</i>	<i>yes</i>	<i>less than 5 gallons</i>	<i>Current</i>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jerry Hallermann / Fire Chief

Name and Title

Swanville Rural Fire Assoc

Fire Department

320-547-2918 *4/30/08*

Phone Number

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): only when needed it is to costly to train with we use dawn dish soap a lot

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

NO SPECIFIC LOCATION





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	DIAMOND	NO	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____ Don Hanson _____
Name and Title

_____ CHIEF _____
Fire Department

_____ TACONITE _____ 5-3-08 _____
Phone Number Date

_____ 245 3744 OR 245 3660 Home _____
E-Mail Address cell 218 244 4128



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
[X] No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires, 25-50% of fires, 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly, Monthly, Quarterly, Semi-Annually, Annually, Bi-Annually, Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons, 5 gallons, 5 to 10 gallons, More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer, Sanitary Sewer, On-Site Septic, Ground, Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for providing training location information.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Behind fire hall

637 First St

TAYLORS FALLS, MN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	NO	AS LITTLE AS POSSIBLE	current
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS	X	10-15 gal	current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin Rivard - Fire Chief
Name and Title

TAYLORS FALLS
Fire Department

(651) 465-5133
Phone Number

5/1/08
Date

n/a
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 10% 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Do Not Train with Foam

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>3M</u>	<u>No</u>		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	<u>Silvey</u>	<u>No</u>	<u>15 gals</u>	<u>yes</u>
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Terry Stenseth Co Fire Chief
Name and Title

Thief River Falls Fire Dept
Fire Department

218 681 3943 Phone Number 4-29-08 Date

FireChief at City TRF.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	VARIES	YES	< 20 Gallons	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self addressed envelope.

Questionnaire completed by:

JEFF Juntunen, CHIEF
 Name and Title
 ESKO FIRE & RESCUE Thompson Twp
 Fire Department
 218 879-8931 4-29-08
 Phone Number Date
 jeffjfm@msw.com
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Henry Petermann Sec./Treas
Name and Title

Tintah Fire + Rescue
Fire Department

218-369-2150 4-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
X 25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- X Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually X Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall - 7240 Table Park Road





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silvex	Yes	5 Gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard Nelson - Fire Chief

Name and Title

Tofte Fire Dept.

Fire Department

218-663-7914 4-28-08

Phone Number Date

Ri Nelson

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): None

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

No training on foam

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rolando Noyes
Name and Title

Fire Chief
Fire Department

Tower Fire
Phone Number

218 753-5212 Date 6/2/08
E-Mail Address

Rolando Noyes at Hotmail.com



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Deke Johnson Fire Chief
Name and Title

Tracy Fire Dept
Fire Department

507-629-5544 28-May-08
Phone Number Date

efdi@iw.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): rarely

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Have not ~~done~~ did training for a long time with foam
I do not remember where it was.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silver	NO	50 gallons	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Garberg Five Chief
Name and Title

Twin Valley Fire Department
Fire Department

218-584-5400 05/05/08
Phone Number Date

gfoods@arvig.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Corner of Bradley + Applebee





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silo-ex	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard Borresen chief
 Name and Title

Tyler Fire Dept.
 Fire Department

507 247-5554
 Phone Number Date 4/30/08

ridiane@frontiernet.net
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821863

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QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVE BELL CHIEF
Name and Title

ULIN Po Box 121 Ulin MN 56585
Fire Department

218 596-8504 5-4-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIREDEPT PARKING LOT WITHIN THE CITY OF UNDERWOOD





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

110 West Elm Ave
Upsala, MN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	Unsure	X	5-10 gal	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jay Baggenstoss Fire Chief

Name and Title

Upsala

Fire Department

320-573-4101

Phone Number

5-12-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

3595 Arcade St. Vadnais Heights, MN 55127
in South parking lot





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	< 5 gal	Current Both
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Sil-Vex / Ansul	Somewhat	< 5 gal.	Both
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Matt Sather - Fire Technician

Name and Title

Vadnais Heights Fire Dept.

Fire Department

651-204-6044 4-28-08

Phone Number

Date

msather@cityvadnaisheights.com

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): very rarely

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Varies - training takes place in various townships & locations

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is ~~Class B~~ or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): Once every 2-4 years

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

- * State Hwy 1 ~ 1/2 mi W of Jct w/ State Hwy 169
(near Pile River)
- * Jct of Hwy 1 & 169
- * St Louis Co Rd 26 just west of N. AUSTIN RD



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANSUL SILU-EX	Y	less than 5g	Current
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN LOTZ, chief
Name and Title

Vermilion Lake
Fire Department

218 242 7017 ← 5-5-08
Phone Number Date

ulchief@localnet.com ← For use w/ this
E-Mail Address



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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Brown St. & 1st Ave in Verndale, mn





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>Yes</u>	<u>10 to 15 gals</u>	<u>Current in use</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ronald Weniger Training Officer
Name and Title

Verndale Fire & Rescue Dept.
Fire Department

218-445-5601 28 April 08
Phone Number Date

rweniger@scicable.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - Proceed to Question 2

No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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STATE_02821877

2222.0920



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Arnold Weleski Fire chief
Name and Title

Viking Fire Dept.
Fire Department

(218) 523-4048 5/29/08
Phone Number Date

wesleski@wikel.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

Too Expensive →

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	<i>Royal Chemical</i>	<i>No</i>	<i>5 gal</i>	_____	<i>30 gal</i>
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry Gaffaney - Fire Chief
Name and Title

Villard Fire + Rescue
Fire Department

320-554-7875 *6-3-08*
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Fire Hall
115 4th Ave N
Virginia MN



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	<u>3m</u>	<u>No</u>	<u>NA</u>	<u>Historic</u>
Class B Alcohol-Resistant (AR)-AFFF	<u>3m</u>	<u>NO</u>	<u>NA</u>	<u>Historic</u>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Silvex</u>	<u>yes</u>	<u>45 gal</u>	<u>Current</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Derrell Knapper Chief
Name and Title

@ Virginia Fire Department
Fire Department

218 748 7520 4-28-08
Phone Number Date

Knapperd@virginiamn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

9550 Airport Rd., 8075 Paradise Lane,
26 Maple St. S.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	yes	< 5 gallons	?
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	yes	< 5 gallons	?
Class B Protein	—	—	—	—
Class B Fluoroprotein (FP)	—	—	—	—
Class B Film-Forming Fluoroprotein (FFFP)	—	—	—	—
Class B AR-FFFP	—	—	—	—
Class A-B Hi Expansion Foam	—	—	—	—
Class A Training Foam	ANGUS	yes	> 50 gals.	?
Other	—	—	—	—

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randall D. Sorensen FIRE Chief
Name and Title

Waconia
Fire Department

952-442-2316 April 27, 08
Phone Number Date

fire@waconia.org
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

19 13th Ave N
 4th Str N + 4th Ave N

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Chem Guard</u>	<u>NO</u>	<u>5</u>	<u>YES</u>	<u>YES</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A Training Foam	<u>Silv-ex</u>	<u>YES</u>	<u>5gal</u>	<u>YES</u>	<u>YES</u>
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Curtis Fire Chief
Name and Title

Waite Park Fire Dept
Fire Department

320-252-4712 5-27-08
Phone Number Date

firechief@waitepark.org
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): BI MONTHLY

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

CITY OF WAIDORE MAIN STREET





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Royal Chemical Inc	Yes	56 Gallons	Yes
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ADAM GROSSKREUTZ Chief

Name and Title

WALDORF FIRE & RESCUE

Fire Department

507-239-0124 Home Number

507-239-2248 Fire Hall Number 4-28-08

Phone Number

Date

adams@myclearwave.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2009 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Sammye Prohberg *CHIEF*
 Name and Title
WALTERS VOL FIRE DEPT
 Fire Department
307-294-3421 *28 APR 08*
 Phone Number Date

E-Mail Address _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

Yes - **Proceed to Question 2**

No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

0-25% of fires

25-50% of fires

75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

Yes

No

4. How often is foam used in training exercises?

Never

Weekly

Monthly

Quarterly

Semi-Annually

Annually

Bi-Annually

Other (please specify): _____

5. How much foam is used per training event?

Less than 5 gallons

5 gallons

5 to 10 gallons

More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

Storm Sewer

Sanitary Sewer

On-Site Septic

Ground

Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

STATE_02821891

2222.0934



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Goodman Fire Chief
Name and Title

Wanamino Fire dept
Fire Department

507 251 3331 6/2/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- X Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- X 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
X No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually X Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Front of Fire Hall





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	yes	2 gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kenny Jensen Chief
Name and Title

Wanda Vol
Fire Department

507-430-1572 4-27-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

we only use foam on fires

OVER →





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silu-ex</u>	<u>no</u>	<u>10 gal.</u>	<u>yes</u>	<u>Yes</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID P CAKEY Chief
Name and Title

WARIBA - Feeley - SAGO Fire Dept.
Fire Department

(218) 498-4392 6/4/08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

221 West Johnson





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus Tridol	No	0-5 gals	H
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	0-5 gal	C
Training Foam	Silvex	Yes	0-10	C
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Lonnie Stauffenecker Fire Chief

Name and Title

Warren Volunteer Fire Dept

Fire Department

218-745-5762 (Home)

Phone Number

Date

Lstauff@frontier.net.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons →
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Waseca County Fair Ground Stand
Area





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	X	10 gals	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	X	5 gals	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary M Conrath Waseca Fire Dept
Name and Title

Waseca Fire Dept
Fire Department

1.507. 835. 3210 5.12.08
Phone Number Date

garyc@ci.waseca.mn.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Last Training was in a farm yard 11225 Co. Rd 20





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	1 gal	Current
Class B Alcohol-Resistant (AR)-AFFF	Angus	NO	1 gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Angus	NO	30 gal	Current
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Hubie Widmer Fire Chief

Name and Title

Watertown Fire

Fire Department

952-955-~~2254~~ 1135 4-29-08

Phone Number

Date

Watertown fire @ frontier-net.net

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): we don't use foam on trainings

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<i>Silver-ex</i>	<i>no</i>	<i>about 20 gallons</i>	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Walter Kramer Chief
Name and Title

Watkins
Fire Department

320-764-2161 5-2-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
 No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

WE DO NOT HAVE A SPECIFIC TRAINING AREA, JUST DIFFERENT
HOUSES WE MIGHT TRAIN IN WHEN ONE IS DONATED
TO THE FIRE DEPARTMENT



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILVEX	YES	25 GALLONS	_____
Training Foam	_____	_____	_____	_____
Other	3M LIGHT WATER 35% - 60%	NO	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2006 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KEVIN KLAPPICH CHIEF

Name and Title

WAYZATA

Fire Department

952 404 - 5338

Phone Number

4/29/06

Date

KLAPPICH@WAYZATA.ORG

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
 No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires 25-50% of fires 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
 No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

North East corner of Dagan St. South of Mill St.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	National Foam	Yes	5 gal.	Current
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Borchardt Training officer Welcome Fire dept.

Name and Title

Welcome Fire

Fire Department

(507) 728-8892

Phone Number

5-25-08

Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): TYPICAL WE USE TRAINING FOAM

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

4251 XYLON AVE N.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	ANSUL	N	< 20 gal	Current
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANSUL	N	< 20 gal	Current
Training Foam	JALSAAS	Y	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

SCOTT CRANDALL, FIRE CHIEF
Name and Title

WEST METRO FIRE- RESCUE DISTRICT
Fire Department

763-537-2323
Phone Number

4-28-08
Date

SCRANDALL@WESTMETROFIRE.COM
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Semi-Annually
- Monthly
- Annually
- Quarterly
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

100
City Dump Grounds 7th Ave N
Wheaton MN 56296



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silvex	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael W Fox Chief
Name and Title

Wheaton
Fire Department

320-523-8209 4-28-08
Phone Number Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

9th St / WHITE BEAR PARKWAY





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	NO		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	ANGUS	YES	5-10 GAL	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL PELTER DIST CHIEF

Name and Title

WHITE BEAR LAKE

Fire Department

651-275-2588

Phone Number

5/5/08

Date

p.pelter@whitebearlake.org

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

212 Main St,
Williams MA 01686

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	<u>Silvex</u>	<u>X</u>	<u>20 gal</u>	<u> </u>	<u> </u>
Class B Alcohol-Resistant (AR)-AFFF	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B Protein	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B Fluoroprotein (FP)	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B Film-Forming Fluoroprotein (FFFP)	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class B AR-FFFP	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class A-B Hi Expansion Foam	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Class A	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Training Foam	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Other	<u>NA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Baldwin Fire Chief
Name and Title

Williams Fire Dept
Fire Department

218-783-~~9600~~ 4601 5/27/08
Phone Number Date

williamsfiredept@wiktel.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Willmar Fire Dept. 515 S.W. 2nd ST Willmar



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	0	
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	0	
Class B Protein	—	—	—	
Class B Fluoroprotein (FP)	—	—	—	
Class B Film-Forming Fluoroprotein (FFFP)	—	—	—	
Class B AR-FFFP	—	—	—	
Class A-B Hi Expansion Foam	—	—	—	
Class A	Angus Hi-Combat	YES	40 Gals	Current use
Training Foam	—	—	—	
Other	—	—	—	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rick Johnson maintenance
Name and Title

Willmar Fire Dept.
Fire Department

320-235-1354 5-7-08
Phone Number Date

rjohnson@Cl.Willmar.MN.us
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	Silv-ex	Yes	Less 5gal	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeremy Schossow Chief
Name and Title

Wilson Fire
Fire Department

Phone Number _____ Date 5-6-08

E-Mail Address _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Various locations - Central Fire Station 451
E. 3rd + Technical College 1250 Homer
Rd Winona, MN 55989





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	<u>ANSULITE ARC</u>	<u>yes</u>	<u>900 5gal. pails</u>	<u>Current</u>
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>SILV-ex ANSUL</u>	<u>NO</u>	<u>100^{5gal} pail</u>	<u>Current</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ED KRALL Fire Chief

Name and Title

WINONA FIRE Dept

Fire Department

507-457-8266 4-30-08

Phone Number

Date

ekrall@ci.winona.mn.us

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
25-50% of fires
75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

5. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

BAKER AVENUE AND 2ND STREET SOUTH
CITY OF WINSTED.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	ANGUS HiCOMBAT A	NO	5 GAL	FIRE SUPPRESSION
Training Foam	_____	_____	_____	_____
Other	AQUA ECO - STICKS	YES	1 SMALL STICK 2.89 oz.	TRAINING / CLASS FIRES

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chad Stender 1st ASSISTANT CHIEF.

Name and Title

WINSTED FIRE

Fire Department

320-485-2316

5/4/08

Phone Number

Date

Fire chief @ Winsted. mn. us.

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

233 N MAYNARD AVE. WILK LAKE MINN
235 W JOHNSON ST WILK LAKE MINN





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		NO	0	
Class B Alcohol-Resistant (AR)-AFFF		NO	0	
Class B Protein		NO	0	
Class B Fluoroprotein (FP)		NO	0	
Class B Film-Forming Fluoroprotein (FFFP)		NO	0	
Class B AR-FFFP		NO	0	
Class A-B Hi Expansion Foam		NO	0	
Class A	SILV-EX ANSUL	YES	25gal	Both
Training Foam		NO	0	
Other		NO	0	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CORY YUTAW. ASST FIRE CHIEF
Name and Title

WOLF LAKE FIRE DEPT.
Fire Department

(218) 538-6760 5-6-08.
Phone Number Date

WL FIRE DEPT @ WCTA.NET
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A Training Foam	<i>Chemguard</i>	<i>yes</i>	<i>5gal</i>	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Nick Dhande *chief*
Name and Title

Wrenshall Fire Dept
Fire Department

218-384-4670 *4-28-08*
Phone Number Date

wrenshallfire@boc.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - **Proceed to Question 2**
- No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Never
- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Not used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER →



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Currently Used?</u>	<u>Historically Used?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	<u>Silv-ex</u>	<u>NO</u>	<u>50 gal</u>	_____	<u>50 gal/year</u>
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dennis Berry Fire Chief
Name and Title

Wyoming Fire Department
Fire Department

651-462-0579
Phone Number

Chiefberry@wyomingmn.org
E-Mail Address

Date



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): 0

5. How much foam is used per training event? 0

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): Do not use foam for training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>	
Class B Aqueous Film-Forming Foam (AFFF)	_____	↓	_____	_____	
Class B Alcohol-Resistant (AR)-AFFF	Alcoseal 3% Angus		_____	20 gallons	_____
Class B Protein	_____		_____	_____	_____
Class B Fluoroprotein (FP)	_____		_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____		_____	_____	_____
Class B AR-FFFP	_____		_____	_____	_____
Class A-B Hi Expansion Foam	_____		_____	_____	_____
Class A Training Foam	Chemguard		_____	5 gallon in last 3 years	_____
Other	_____		_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____ Ryan Maloney Fire Chief
Name and Title

_____ Zimmerman Livonia Fire Dept
Fire Department

_____ 763-856-2280 _____ 5-8-08
Phone Number Date

_____ Zimmerman fd@sherbtel.net
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires, 25-50% of fires, 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
No

4. How often is foam used in training exercises?

- Weekly, Monthly, Quarterly, Semi-Annually, Annually, Bi-Annually, Other (please specify): VERY LITTLE BECAUSE OF COST

5. How much foam is used per training event?

- Less than 5 gallons, 5 gallons, 5 to 10 gallons, More than 10 gallons (please specify):

6. In training, where does the spent foam go?

- Storm Sewer, Sanitary Sewer, On-Site Septic, Ground, Other (please describe):

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

WE REALLY DONT USE FOAM WHEN TRAINING BECAUSE OF COST OF PRODUCT WHEN WE DID IT WAS WHEN WE FIRST GOT IT TO SEE WHAT LOOKED LIKE AND IT WENT DOWN SEWER DRAIN IN CITY OF ZUMBRO FALLS IN FRONT OF FIRE HALL.





QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

BEALNO FIRE STATION 1500 JEFFERSON
DRIVE, ZUMBROTA, MN.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	SILV-EX	YES	30-40 GAL	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ROSAW C. HORSMAN ADM. CHIEF ZFD
Name and Title

ZUMBROTA VOLUNTEER FIRE DEPT.
Fire Department

507-732-7527 4/28/08
Phone Number Date

rhorsman@aol.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

APPENDIX D

Questionnaires from Airport Fire Departments



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

- 1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
2. How often is Class B or Class A foam used in response to fire calls?
3. What type of foam does your Department use for training exercises operations?
4. How often is foam used in training exercises?
5. How much foam is used per training event?
6. In training, where does the spent foam go?
7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M, Chemguard	No	0-100 gal.	Firefighting
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

John Farnham – Senior Airfield Firefighter
Name and Title

148TH Mn. A.N.G. Duluth Mn.
Fire Department

(218) 788-7434
Phone Number

26 May 08
Date

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

FAA Inspector requires short burst of foam during annual test.

5. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Required annual training for individual Fire Fighters occurs at training facility in Duluth. During mandatory FAA testing, site is determined randomly by inspector. but is normally on one of the runways. They require a short burst of foam to ensure operator and truck is functioning correctly.



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	<u>Chemguard</u>	<u>Yes see question #4</u>	<u>less than 5 gal.</u>	<u>Current</u>
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt G. Claussen Asst. Airport Mgr.

Name and Title

Rochester Airport Fire Dept.

Fire Department

507-282-2328 Ext. 102

Phone Number

Date

claussen@rochesterintairport.com 5/7/08

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

- Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
 Class A only Class B only Both Class A and Class B
- How often is Class B or Class A foam used in response to fire calls?
 0-25% of fires 25-50% of fires 75-100% of fires
- What type of foam does your Department use for training exercises operations?
 Class A only Class B only Both Class A and Class B
 Training foam No foam is used in training (If none, please skip to Question 8)
- How often is foam used in training exercises?
 Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____
- How much foam is used per training event?
 Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____
- In training, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

Training has been conducted on plugged a concrete area which is then pumped out, removed from site, discharged to sanitary sewer system off site by a licensed contractor.

- Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

On airport. Training conducted on concrete areas; Humphrey remote ramp or a deice pad with covered or plugged drains.



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QUESTIONNAIRE Firefighting Foam Use in Fire Training

What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	Ansul 3%	Yes	200-250 gallons	Both
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	Unknown	Unknown	Unknown	Historic (1960s/1970s) - Military
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	1% Lorcon	No	5 gallons	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

_____ Toni J. Howell MAC Manager/Environmental Affairs
Name and Title

_____ Metropolitan Airports Commission Fire Department (at MSP)
Fire Department

_____ 612-726-8100 _____ 02 May 08
Phone Number Date

_____ thowell@mspm.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Nancy Rodning

From: Howell, Toni [THowell@mspmacc.org]
Sent: Monday, May 05, 2008 9:25 AM
To: Nancy Rodning
Subject: RE: Firefighting Foam Questionnaire

Ms. Rodning - Please find attached the completed firefighting foam questionnaire from the MAC/MSP Fire Department. Per your inquiry, the Reliever airports do not have their own fire departments but instead receive fire protection from the surrounding communities (listed below).

Saint Paul Downtown Airport	City Of Saint Paul Fire Department
Airlake	City of Lakeville Fire Department
Anoka County	Blaine Spring Lake Park Mounds View Fire Department
Flying Cloud	Eden Prairie Fire Department
Crystal	West Metro Fire
Lake Elmo	Lake Elmo Fire Department

Please call or email if you have questions regarding this submittal or if I can be of further assistance in your efforts.

Toni J. Howell
Manager, Environmental Affairs
Metropolitan Airports Commission
phone: 612-726-5336

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Thank you.

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Tuesday, April 29, 2008 10:16 AM
To: thowell@mspmacc.org
Subject: Firefighting Foam Questionnaire

Good morning Ms. Howell,

As we discussed last week, Delta Consultants is working with the Minnesota Pollution Control Agency on research into the use of firefighting foams in Minnesota. We've sent out questionnaires to municipal fire departments and training schools across the State to find out where and how much foams are being used. Attached is the questionnaire and a cover letter from the MPCA. I appreciate you and Chief Burke taking the time to complete the questionnaire.

I have not send questionnaires to the MAC reliever airports assuming that any fire training would be handled out of the MSP airport. If this is not so and it would be appropriate for me to send questionnaires to the reliever airport fire departments, please let me know. Otherwise I assume the MSP fire department is responsible for foam training with all of the MAC airport fire departments?

Please call me with any questions you may have about the questionnaire or this research.

Thank you.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
5910 Rice Creek Parkway, Suite 100
Shoreview, MN 55126
nrodning@deltaenv.com

5/14/2008

STATE_02821944

2222.0987

Nancy Rodning

From: Howell, Toni [THowell@mspmac.org]
Sent: Wednesday, June 11, 2008 9:55 AM
To: Nancy Rodning
Subject: RE: Firefighting foam questionnaire

Ms. Rodning - Yes, 3M foam was used at the airport in the past. Use of the 3M product was discontinued in the 2000-2001 timeframe. We now use Ansul 3%.

Please call if I can be of further assistance.

Toni J. Howell

Manager, Environmental Affairs
Metropolitan Airports Commission
phone: 612-726-5336

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From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Monday, June 09, 2008 2:16 PM
To: thowell@mspmac.org
Subject: Firefighting foam questionnaire

Good afternoon Ms. Howell,

I am just finishing the Firefighting Foam Use in Minnesota report for the Minnesota Pollution Control Agency, and I have one more question for you-- Do you know if foam made by 3M was ever used at the airport?

Thank you.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
5910 Rice Creek Parkway, Suite 100
Shoreview, MN 55126
nrodning@deltaenv.com
(651)697-5152 direct
(800)477-7411 toll free
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6/14/2008

STATE_02821945

2222.0988

APPENDIX E

Questionnaires from Firefighting Training Schools



QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand/Manufacturer of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	_____	_____	_____
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Scott Schaefer Fire Training Coordinator
Name and Title

Alexandria Technical College
School Name

1-888-234-1313 Ext. 5274 6/13/2008
Phone Number Date

scottsc@alextech.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- X Yes - Please proceed to Question 2
No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
Semi-Annually Annually X Bi-Annually
Never Other (please specify):

3. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Containment system for off-site disposal
Other (please describe):

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We seldom use foam for training. When we do it is generally used when conducting live burns and is used for exposure protection. When this happens, we use class A foam. These burns are not conducted at a set location, they are held at various locations. I would estimate that we use foam on a training burn approximately once every two years. We do not use foam for our interior attacks when training firefighters. The foam is provided by the Fire Department so the brand varies.

6. Do other fire departments utilize your facility for their training with foam?

- Yes
X No
-- If yes, do the other fire departments bring their own foam? Yes No
-- If yes, approximately how much foam is discharged annually by other departments at your facility?
Less than 5 gallons 5-25 gallons 25 to 50 gallons
More than 50 gallons (please specify):



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QUESTIONNAIRE

Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

<u>Type of Foam</u>	<u>Brand/Manufacturer of Foam</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	Angus	Less 5 gal	_____
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Todd Seitz, Fire Training Coordinator
Name and Title

Hennepin Technical College
School Name

952-995-1327 6-4-08
Phone Number Date

Todd.seitz@hennepintech.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- X Yes - Please proceed to Question 2
No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
Semi-Annually X Annually Bi-Annually
Never Other (please specify):

3. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Containment system for off-site disposal
Other (please describe):

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Hennepin Technical College - 13100 College View Drive, Eden Prairie, MN 55347

6. Do other fire departments utilize your facility for their training with foam?

- Yes
X No
-- If yes, do the other fire departments bring their own foam? Yes No
-- If yes, approximately how much foam is discharged annually by other departments at your facility?
Less than 5 gallons 5-25 gallons 25 to 50 gallons
More than 50 gallons (please specify):





QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	_____	_____	_____
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

MARY CHRISTENSEN INSTRUCTOR
Name and Title

ITASCA COMMUNITY COLLEGE Grand Rapids
School Name

210 327 4580 5/5/08
Phone Number Date

mchristensen@itascacc.edu 218 2488266
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

3. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Containment system for off-site disposal
Other (please describe):

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Blank lines for address and location information.

6. Do other fire departments utilize your facility for their training with foam?

- Yes No
If yes, do the other fire departments bring their own foam? Yes No
If yes, approximately how much foam is discharged annually by other departments at your facility?
Less than 5 gallons 5-25 gallons 25 to 50 gallons
More than 50 gallons (please specify):





QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	?	Historic
Class B Alcohol-Resistant (AR)-AFFF	3M	?	Historic
Class B Protein	3M	?	Historic
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	SILVEX	less than 5 gal	Current
Training Foam	SIMU FOAM / KIDDE GROUP TRAINOL		Current
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

DAVID SARAZIN ACADEMIC SUPERVISOR
Name and Title

LAKE SUPERIOR COLLEGE ERIC
School Name

218 733-1077 05/01/08
Phone Number Date

dsarazin@lsc.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
- No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

3. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

4. Where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Containment system for off-site disposal
- Other (please describe): ON-SITE TREATMENT FACILITY

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

11501 Hwy 23 DUWICH NJ 08808

WE USE LESS THAN 5 GALLONS OF CLASS A FOAM CONCENTRATE ON AN ANNUAL BASIS

OUR CLASS B "FOAM" IS A SIMULATION PRODUCT - NOT ACTUAL FOAM CONCENTRATE (TRAINOL)

6. Do other fire departments utilize your facility for their training with foam?

- Yes — THE FD'S USE OUR SIMU FOAM
- No

-- If yes, do the other fire departments bring their own foam? Yes No

-- If yes, approximately how much foam is discharged annually by other departments at your facility?

- Less than 5 gallons
- 5-25 gallons
- 25 to 50 gallons
- More than 50 gallons (please specify): _____





QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	<i>Silvex</i>	<i>50-75 gal</i>	<i>< 50 gal</i>
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Steve Flaherty Fire Program Mgr
Name and Title

Mesabi Range College
School Name

218-749-7770 5/8/08
Phone Number Date

s.flaherty@mr.mnscu.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify):

3. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
Containment system for off-site disposal
Other (please describe):

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Various fire department locations
on-site

6. Do other fire departments utilize your facility for their training with foam?

- Yes
No
If yes, do the other fire departments bring their own foam? Yes No
If yes, approximately how much foam is discharged annually by other departments at your facility?
Less than 5 gallons 5-25 gallons 25 to 50 gallons
More than 50 gallons (please specify):





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M + ANSULITE	10 GAL	BOTH
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	10 GAL	BOTH
Class B Protein	N/A		
Class B Fluoroprotein (FP)	N/A		
Class B Film-Forming Fluoroprotein (FFFP)	N/A		
Class B AR-FFFP	N/A		
Class A-B Hi Expansion Foam	N/A		
Class A	SILVERX	20 GALS	BOTH
Training Foam	UNKNOWN	15	BOTH
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

DARYL BARTHOLOMAUS - TRAINING COORDINATOR
Name and Title

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
School Name
607 W. Main St., #100
Marshall

507-537-7051
Phone Number
5/5/08
Date

daryl.bartholomaus@mnwest.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
- No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
- Semi-Annually Annually Bi-Annually
- Other (please specify): _____

3. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
- More than 10 gallons (please specify): 20-50 GALS.

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
- Containment system for off-site disposal
- Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

GRANITE FALLS FD - UNKNOWN LOCATION

LUVERNE FD - " "

JACKSON FD - " "

LAKE WILSON FD - " "

MEKIT CENTER - MARSHALL, MN - some

*part of City of Marshall
1 night - < 5 gal / quarter*

6. Do other fire departments utilize your facility for their training with foam?

- Yes
- No
- If yes, do the other fire departments bring their own foam? Yes No
- If yes, approximately how much foam is discharged annually by other departments at your facility?
- Less than 5 gallons 5-25 gallons 25 to 50 gallons
- More than 50 gallons (please specify): _____





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand/Manufacturer of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	<u>Dependent on What the department has</u>	15 Gal	_____
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Rick Besser, Fire and EMS Coordinator
Name and Title

Northland College
School Name

218-683-3726
Phone Number

6-6-08
Date

Rick.besser@northlandcollege.edu
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
 No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Never Other (please specify): _____

3. How much foam is used per training event?

- Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic Ground
 Containment system for off-site disposal
 Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We do a Foam Class as part of the FF I/II training classes we run. Over the past year we had classes in McIntosh, Itasca, and Red Lake Falls Minnesota.

6. Do other fire departments utilize your facility for their training with foam?

- Yes
 No
-- **If yes**, do the other fire departments bring their own foam? Yes No
-- **If yes**, approximately how much foam is discharged annually by other departments at your facility?
 Less than 5 gallons 5-25 gallons 25 to 50 gallons
 More than 50 gallons (please specify): _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	UNKNOWN - SUPPLIED BY FIRE DEPTS. --	_____	_____
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

MICHAEL ANDERSON FIRE PROGRAM MANAGER

Name and Title

PINE TECHNICAL COLLEGE

School Name

320-629-5184 5/1/08

Phone Number

Date

ANDERSONM @ PINETECH.EDU

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- X Yes - Please proceed to Question 2
No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly Monthly Quarterly
Semi-Annually Annually Bi-Annually
Other (please specify): WHEN REQUESTED

3. How much foam is used per training event?

- X Less than 5 gallons 5 gallons 5 to 10 gallons
More than 10 gallons (please specify):

4. Where does the spent foam go?

- Storm Sewer Sanitary Sewer On-Site Septic X Ground
Containment system for off-site disposal
Other (please describe):

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

USED AT HOUSE BURNS - DON'T HAVE LOCATIONS AVAILABLE NOW

6. Do other fire departments utilize your facility for their training with foam?

- Yes
X No
-- If yes, do the other fire departments bring their own foam? Yes No
-- If yes, approximately how much foam is discharged annually by other departments at your facility?
Less than 5 gallons 5-25 gallons 25 to 50 gallons
More than 50 gallons (please specify):





QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	Silven	10gal	10gal
Training Foam	_____	_____	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Michael Roe Program Mgr FIRE
Name and Title

Ridgewater College Willmar, MN
School Name

320-272-6062 4-30-8
Phone Number Date

Mike.Roe@Ridgewater.EDU
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - Please proceed to Question 2
- No - Please sign the back of this form and return to Delta Consultants

2. How often does the school train with Class A or Class B foam?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

3. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

4. Where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Containment system for off-site disposal
- Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Various Fire Departments in West Central MN (Lakefield FD) (Ortonville FD) (Prinsburg FD) (Morris FD)

6. Do other fire departments utilize your facility for their training with foam?

- Yes
- No

- If yes, do the other fire departments bring their own foam? Yes No
- If yes, approximately how much foam is discharged annually by other departments at your facility?
 - Less than 5 gallons
 - 5-25 gallons
 - 25 to 50 gallons
 - More than 50 gallons (please specify): _____





QUESTIONNAIRE Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____
Class B Protein	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____
Class B AR-FFFP	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____
Class A	?	LESS THAN 5 GAL.	_____
Training Foam	?	5-6 QUARTS	_____
Other	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Brenda Staska - Training Coordinator

Name and Title

Riverland Comm. COLLEGE

School Name

507-433-0353

4-30-08

Phone Number

Date

bstaska@riverland.edu

E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - **Please proceed to Question 2**
- No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): 4-6 TIME A YEAR

3. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

4. Where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Containment system for off-site disposal
- Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Have not trained with foam in ^{many} ~~the last 2~~ years.
Only used Class A; 5gal or less. Don't
recall foam type. Recieve one train event
in Pres for MN

6. Do other fire departments utilize your facility for their training with foam?

- Yes
- No
- **If yes**, do the other fire departments bring their own foam? Yes No
- **If yes**, approximately how much foam is discharged annually by other departments at your facility?
- Less than 5 gallons
- 5-25 gallons
- 25 to 50 gallons
- More than 50 gallons (please specify): _____





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	All	5gal Plus	yes
Class B Alcohol-Resistant (AR)-AFFF	All	5gal Plus	yes
Class B Protein	—	0	—
Class B Fluoroprotein (FP)	—	0	—
Class B Film-Forming Fluoroprotein (FFFP)	—	0	—
Class B AR-FFFP	—	0	—
Class A-B Hi Expansion Foam	—	0	—
Class A	All	10 plus	yes
Training Foam	Silvex	10 plus	yes
Other	—	0	—

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Tim Zehnder Fire Rescue Program Manager
 Name and Title

South Central College 1920 Lee Blvd. r. markets 56003
 School Name

501-389-7329 office 501-381-1390 Cell
 Phone Number Date

Tim.zehnder@southcentral.edu
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

- Yes - **Please proceed to Question 2**
- No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): _____

3. How much foam is used per training event?

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

4. Where does the spent foam go?

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Containment system for off-site disposal
- Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

I have no way in telling you this information,

6. Do other fire departments utilize your facility for their training with foam?

- Yes
- No
- If yes, do the other fire departments bring their own foam? Yes No
- If yes, approximately how much foam is discharged annually by other departments at your facility?
- Less than 5 gallons
- 5-25 gallons
- 25 to 50 gallons
- More than 50 gallons (please specify): _____



Nancy Rodning

From: Tim Zehnder [tim.zehnder@southcentral.edu]
Sent: Tuesday, May 20, 2008 9:30 AM
To: Nancy Rodning
Subject: RE: Firefighting Foam Questionnaire

The training takes place at the school and were ever the depts. request it, at their station or in a empty lot, etc

Thank You
Tim Zehnder
Program Manager
South Central College
507-389-7329 Office
507-381-1390 Cell
tim.zehnder@southcentral.edu

"343 NEVER FORGET"

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Monday, May 19, 2008 5:11 PM
To: Tim Zehnder
Subject: Firefighting Foam Questionnaire

Hello Mr. Zehnder,

Thank you for returning the Delta/MPCA firefighting foam questionnaire. Can you please give me some clarification as to where the training takes place? Do you train with foam at the school? or does the foam training take place at various local fire departments?

Thank you, any additional information would be helpful.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
5910 Rice Creek Parkway, Suite 100
Shoreview, MN 55126
nrodning@deltaenv.com
(651)697-5152 direct
(800)477-7411 toll free
(651)639-9473 fax
www.deltaenv.com

Member of Inogen
www.inogenet.com

Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

5/20/2008

STATE_02821969

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APPENDIX F

Questionnaires from Oil Refineries and Camp Ripley



QUESTIONNAIRE Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

- Yes - Proceed to Question 2
- No - Sign the back of this form and return to Delta Consultants

2. How often is Class B or Class A foam used in response to fire calls?

- 0-25% of fires
- 25-50% of fires
- 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

- Yes
- No

4. How often is foam used in training exercises?

- Weekly
- Monthly
- Quarterly
- Semi-Annually
- Annually
- Bi-Annually
- Other (please specify): None

5. How much foam is used per training event? N/A

- Less than 5 gallons
- 5 gallons
- 5 to 10 gallons
- More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N/A

- Storm Sewer
- Sanitary Sewer
- On-Site Septic
- Ground
- Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

N/A





QUESTIONNAIRE Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

<u>Type of Foam</u>	<u>Brand of Foam</u>	<u>Used in Training? Yes or No</u>	<u>Amount Used Annually</u>	<u>Current Use or Historic Use?</u>
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____
Class A	<u>Fire-Trol FireFoam 103B</u>	<u>NO</u>	<u>50 gals</u>	<u>10 gal for 2005 so far</u>
Training Foam	_____	_____	_____	_____
Other	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Rothkretner Roads & Grounds Supervisor
Name and Title

Camp Ripley
Fire Department

(320) 632-7090 (320) 616-3098 4-30-08
Phone Number Date

Thomas.Rothkretner@mn.mgb.army.mil
E-Mail Address

Pat Boone F&ES Camp Ripley

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



F

Post-it® Fax Note	7671	Date	5/6/08	# of pages	2
To	Nancy Rodning		From	Sim Stehje	
Co./Dept.	DELTA		Co.	MPCA	
Phone #			Phone #	651-297-6666	
Fax #	651-639-9473		Fax #		

- Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
 Class A only Class B only Both Class A and Class B
- How often is Class B or Class A foam used in response to fire calls?
 0-25% of fires 25-50% of fires 75-100% of fires
- What type of foam does your Department use for training exercises operations?
 Class A only Class B only Both Class A and Class B
 Training foam No foam is used in training (If none, please skip to Question 8)

- How often is foam used in training exercises?
 Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): _____

- How much foam is used per training event?
 Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): 50-100 gal.

- Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
MARATHON PETROLEUM REFINERY FIRE TRAINING GROUNDS
301 ST. PAUL PARK RD., ST. PAUL PARK MN.

- In training, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____

- In fire responses at the refinery, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): _____





QUESTIONNAIRE

Firefighting Foam Use in Fire Training

9. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		YES		
Class B Alcohol-Resistant (AR)-AFFF	THUNDERSTORM	YES	250 GAL.	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

STEVE CRISP FIRE CHIEF
 Name and Title

MARATHON PETROLEUM CORP.
 Fire Department

651-458-6461 5-2-08
 Phone Number Date

SLCRISP@MARATHON OIL.COM
 E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Nancy Rodning

From: Crisp, Steven L. [slcrisp@marathonoil.com]
Sent: Wednesday, June 04, 2008 8:23 AM
To: Nancy Rodning
Subject: RE: Questions re. firefighting foams

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Tuesday, June 03, 2008 4:34 PM
To: Crisp, Steven L.
Subject: FW: Questions re. firefighting foams

Mr. Crisp:

I'm terribly sorry, I did receive the questionnaire you returned in May. I was wondering, do any other fire departments use your fire training grounds for training with foam? If so, do they bring their own foam? or would their foam use be included in your 250 gallon/year total annual use? It is in the total use, we don't use foam with all the outside agencies with the exception of displaying the capabilities from time to time.

Does the amount of foam you indicated you use annually (250 gallon/year) include that used for fire response? If not, how much foam would you estimate you use annually for fire response, on average? The 250 gallons is training only. The previous years use is sporadic (depending on emergencies), Jan. 5th we had a tank fire and utilized approximately 2000 gallons to extinguish. Prior to that we had another tank fire in 2004 that took 6500 gallons of foam to extinguish.

I assume the Thunderstorm AR-AFF foam is what you currently use. Do you recall, was fire foam manufactured by 3M ever used by your department? Yes we had used 3M's foam prior to the change out to Thunderstorm and that change over I believe was back in 2000.

Thank you for your time and information.

Nancy Rodning
Delta Consultants

-----Original Message-----

From: Nancy Rodning
Sent: Tuesday, June 03, 2008 3:33 PM
To: 'slcrisp@marathonpetroleum.com'
Subject: Questions re. firefighting foams

Good afternoon Mr. Crisp:

Delta Consultants is working with the Minnesota Pollution Control Agency on conducting research into the use of firefighting foams in Minnesota. Mr. Jim Stockinger at the MPCA gave me your contact information. Delta is gathering information from fire departments and training schools across the State so the MPCA can better understand how much, what kind, and where firefighting foam is being used in Minnesota.

Attached is an explanatory letter from the MPCA and a questionnaire regarding foam use at the refinery. It is Delta's understanding that the Flint Hills Refinery has their own fire department, and that fire training with foam is conducted at the refinery. Would you please complete the attached questionnaire and return it to me by Friday, June 6th?

I appreciate any information you can provide. If you have any questions, please call me at 651-697-5152. You can return the questionnaire to me via email or regular mail at my address below.

Thank you.

Nancy Rodning

6/9/2008



QUESTIONNAIRE Firefighting Foam Use in Fire Training

- Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
 Class A only Class B only Both Class A and Class B
- How often is Class B or Class A foam used in response to fire calls?
 0-25% of fires 25-50% of fires 75-100% of fires
- What type of foam does your Department use for training exercises operations?
 Class A only Class B only Both Class A and Class B
 Training foam No foam is used in training (If none, please skip to Question 8)
- How often is foam used in training exercises?
 Weekly Monthly Quarterly
 Semi-Annually Annually Bi-Annually
 Other (please specify): Approximately 20 – 25 times during the training season from April through November. This includes mutual aid fire training and training for St Paul and Minneapolis Trainees.
- How much foam is used per training event?
 Less than 5 gallons 5 gallons 5 to 10 gallons
 More than 10 gallons (please specify): _____
- Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
1255 Clayton Blvd. Junction Hwys 52 & 55. At the fire training grounds in the SW corner of the Refinery.

 In training, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): To a lined holding area from which it is pumped to a sump, then to our Waste Water Treatment Facility. _____
- In fire responses at the refinery, where does the spent foam go?
 Storm Sewer Sanitary Sewer On-Site Septic Ground
 Other (please describe): Depending on the location of the fire/spill, some goes to the Waste Water Treatment Facility and other may go to soil. _____



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
 Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com



QUESTIONNAIRE

Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M FC 600F 3M FC 602 3M ATC 3X3 3M FC 603 Thunderstorm FC 600A	FC 600F Yes No No No FC 600A Yes	Response only 0 0 0 300 gal for trng	Current for all
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)	Used many years ago.	Yes	Not Sure	Historic
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

Peter D. Herpst
Deputy Fire Chief
Name and Title

Flint Hills Resources, Pine Bend Refinery Fire Department
Fire Department

651-437-0643
Phone Number

6/2/08
Date

pete.herpst@fhr.com
E-Mail Address



5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

APPENDIX G

Individual Training Site Profiles

- Albert Lea
- Apple Valley
- Appleton
- Babbitt
- Bemidji
- Blackhoof
- Breckenridge
- Buffalo Lake
- Burnsville
- Buyck
- Cass Lake
- Claremont
- Cottage Grove
- Dunnell-Lake Fremont
- Ellsburg
- Evansville
- Fairmont
- Fridley
- Glenville
- Golden Valley
- Hamburg
- Hardwick
- Harmony
- Hibbing
- Hopkins
- Hoyt Lakes
- Hugo
- Hutchinson
- Linwood
- Lismore
- Littlefork
- Loretto
- Mankato
- Marshall
- Maynard
- Minneapolis
- Montevideo
- Myrtle
- New Richland
- Newfolden
- North St. Paul
- Northland
- Northrop
- Paynesville
- Pelican Rapids
- Pierz
- Pine River
- Porter
- Preston
- Rochester
- Silver Lake
- St. Clair
- St. Cloud
- St. Paul
- Tyler
- Upsala
- Waconia
- Waldorf
- Waseca
- Welcome
- Winona
- Winsted
- Duluth Airport
- MSP Airport
- Rochester Airport
- Lake Superior College
Duluth
- South Central College
North Mankato
- Flint Hills Pine Bend
Refinery
- Marathon Refinery
- Former Wrenshall
Refinery

SITE SUMMARY

Site Name: Albert Lea

Fire Department: Albert Lea Fire Department
221 E. Clark Street
Albert Lea, MN 56007

Site Contact: Fire Chief James Berg
507-377-4340
alfire@city.alberglea.org

Training Location: Frank Avenue, near the dog pound

Type of foam used in training: Ansulite AR-AFF

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFF - 15 to 20 gallons
Class A - 40 gallons

Nearest surface water: Albert Lea Lake located approximately 0.4 miles east

Nearest wetland: Approximately 1/2 mile west-southwest

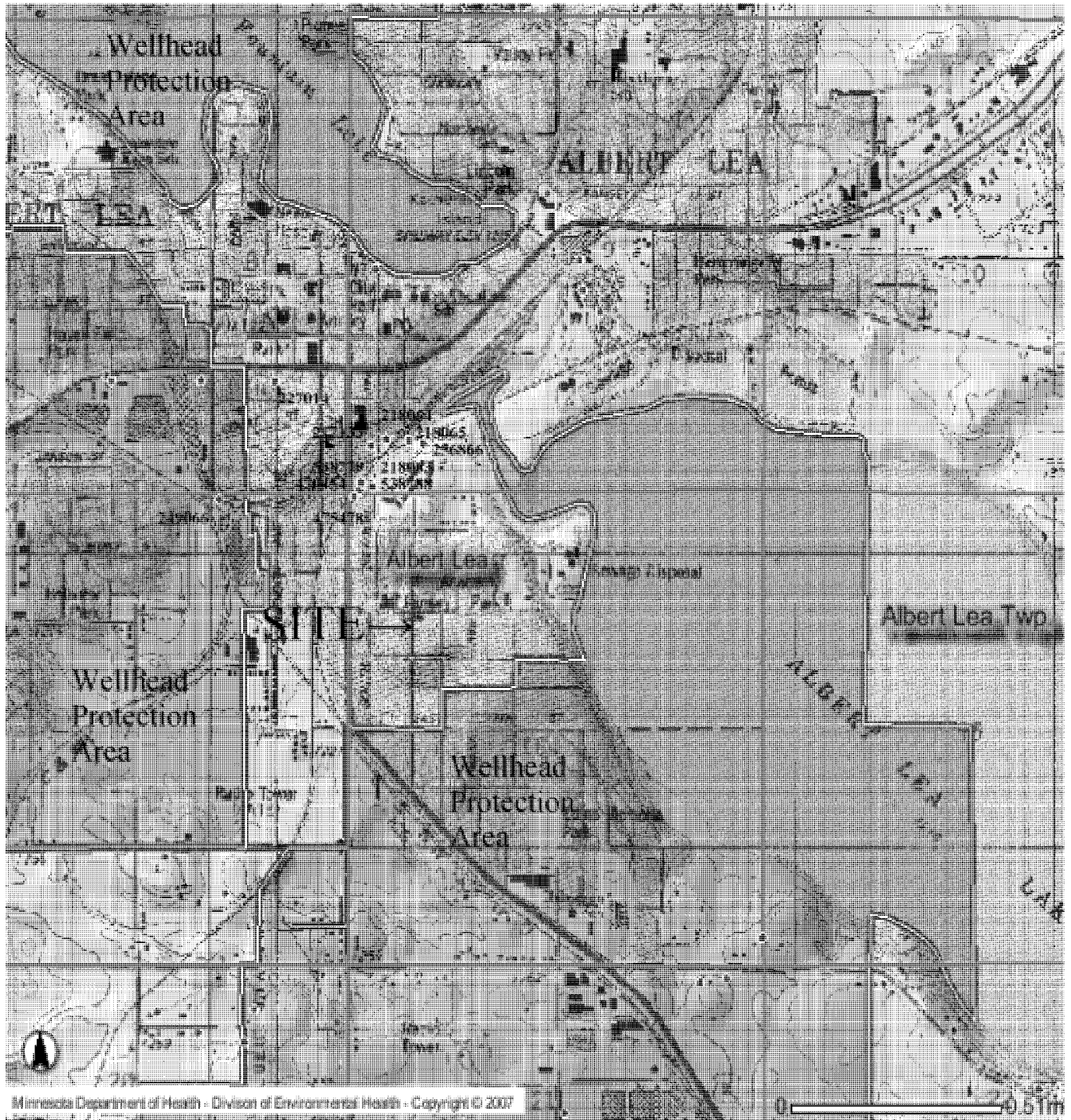
Karst Area: Training site located in covered karst area

Nearest water well: <1/4 mile north

Nearest Wellhead Protection Area: <1/4 mile southeast

SITE RANKING: 13

ALBERT LEA CWI Well Map



Albert Lea What's In My Neighborhood Map

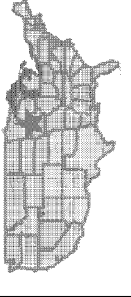
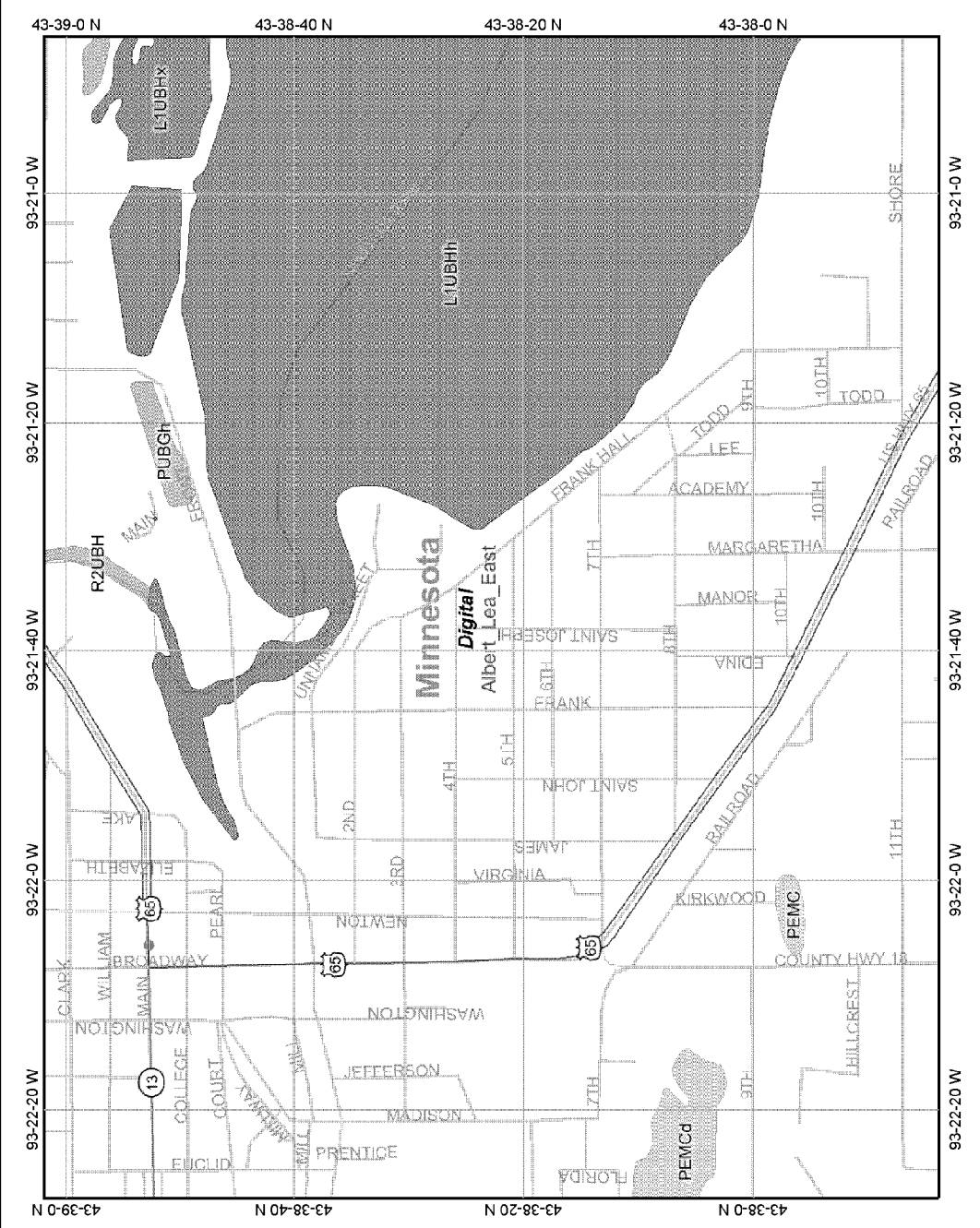


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Albert Lea Wetland Map



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
 - Other Road
 - Interstate
 - State highway
 - US highway
- Roads
 - Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Strub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:16,881

Map center: 43° 38' 23" N, 93° 21' 37" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

470454

County Freeborn
 Quad Albert Lea East
 Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/16/1992
 Update Date 04/24/2008
 Received Date

Well Name MW-4		Well Depth	Depth Completed	Date Well Completed		
Township Range Dir Section Subsections Elevation		25 ft.	25 ft.	08/03/1990		
102	21 W 9 CCCCCD	Elevation Method (USGS 7.5 min or equiv.)				
Elevation Method		Drilling Method Hollow Stem Auger				
Well Address 701 BROADWAY S ALBERT LEA MN Geological Material Color Hardness From To TOPSOIL BLACK SOFT 0 2 SILT W/ CLAY BLK/GRY SOFT 2 5 CLAY GRAY SOFT 5 7 CLAY GRAY HARD 7 25		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		--	From Ft. to Ft.			
		Use Abandoned Status Sealed				
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/>				
		Yes <input checked="" type="checkbox"/> No Above/Below 2.87 ft.				
		Casing Diameter		Weight	Hole Diameter	
		2 in. to 5 ft.		3.69 lbs./ft.	9.5 in. to 25 ft.	
		Open Hole from ft. to ft.				
		Screen YES		Make JOHNSON	Type stainless steel	
		Diameter		Slot/Gauze	Length	Set Between
2		10	10	5 ft. and 15 ft.		
2		10	10	15 ft. and 25 ft.		
Static Water Level						
6.4 ft. from Land surface Date Measured 08/06/1990						
PUMPING LEVEL (below land surface)						
ft. after hrs. pumping g.p.m.						
Well Head Completion						
Pitless adapter manufacturer Model						
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS						
WELL SEALED 10-10-1994 BY 40174 ORIGINAL USE MW - MONITOR WELL						
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Grout Material: Bentonite from 3 to 4 ft.						
Grout Material: Neat Cement from to 3 ft.						
Nearest Known Source of Contamination						
70 feet S direction Tanks_type						
Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Pump <input type="checkbox"/> Not Installed Date Installed						
Manufacturer's name Model number __ HP_ Volts						
Length of drop Pipe _ft. Capacity _g.p.m Type Material						
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>						
Yes <input checked="" type="checkbox"/> No						
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Well Contractor Certification						
Bay West Inc. 62573						
License Business Name Lic. Or Reg. No. Name of Driller						
First Bedrock		Aquifer				
Last Strat No Record		Depth to Bedrock ft.				
County Well Index Online Report		470454		Printed 6/25/2008 HE-01205-07		

Minnesota Unique Well No.

475478

County Freeborn
 Quad Albert Lea East
 Quad ID 10A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 12/16/1992
 Update Date 04/25/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name RW-1				Well Depth	Depth Completed	Date Well Completed																					
Township Range Dir Section Subsections Elevation				12 ft.	12 ft.	11/30/1991																					
102	21	W	16	BBBBBB	Elevation Method	Calc from DEM (USGS 7.5 min or equiv.)																					
				Drilling Method Dug																							
Well Address 701 BROADWAY ALBERT LEA MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>GRAY</td> <td>SOFT</td> <td>0</td> <td>2</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>2</td> <td>3</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>3</td> <td>6</td> </tr> <tr> <td>BRN/GRY</td> <td>SOFT</td> <td>6</td> <td>12</td> </tr> </tbody> </table>				Color	Hardness	From	To	GRAY	SOFT	0	2	GRAY	SOFT	2	3	GRAY	SOFT	3	6	BRN/GRY	SOFT	6	12	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Color	Hardness	From	To																				
				GRAY	SOFT	0	2																				
				GRAY	SOFT	2	3																				
				GRAY	SOFT	3	6																				
				BRN/GRY	SOFT	6	12																				
								--	From Ft. to Ft.																		
								Use Abandoned Status Sealed																			
								Casing Type Plastic	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																	
								Above/Below 2.5 ft.																			
				Casing Diameter	Weight	Hole Diameter																					
				6 in. to 5 ft.	lbs./ft.																						
				Open Hole from ft. to ft.																							
				Screen YES	Make WELCO	Type plastic																					
				Diameter	Slot/Gauze	Length	Set Between																				
				4	10	7	5 ft. and 12 ft.																				
				Static Water Level																							
				6.4 ft. from Land surface Date Measured 12/11/1991																							
				PUMPING LEVEL (below land surface)																							
				ft. after hrs. pumping g.p.m.																							
				Well Head Completion																							
				Pitless adapter manufacturer Model																							
				<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																							
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																							
REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
DATED AUGUST 27, 1991. RW-1 RECOVERY TRENCH. M.D.H. CONSTRUCTION VARIANCE. RAYMOND W. THRON. WELL SEALED 11-05-1997 BY 00247 ORIGINAL USE RC - RECOVERY WELL PUMP TYPE: PNEUMATIC				Grout Material: CONCRETE from to 2 ft.																							
				Nearest Known Source of Contamination																							
				45 feet South East direction Volatile organic compounds type																							
				Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							
				Pump <input type="checkbox"/> Not Installed Date Installed																							
				Manufacturer's name Q.E.D. Model number SOLO HP Volts																							
				Length of drop Pipe ft. Capacity g.p.m Type Other (see remarks) Material																							
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																							
				Well Contractor Certification																							
				Bay West Inc. 62573 HUBBEL, J																							
				License Business Name Lic. Or Reg. No. Name of Driller																							
First Bedrock				Aquifer																							
Last Strat No Record				Depth to Bedrock ft.																							

County Well Index Online Report	475478	Printed 6/25/2008 HE-01205-07
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Minnesota Unique Well No.

538779

County Freeborn
 Quad Albert Lea East
 Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/2003
 Update Date 04/30/2008
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name MW-21</p> <p>Township Range Dir Section Subsections Elevation 1219 ft. Calc from DEM (USGS 7.5 min or equiv.)</p> <p>102 21 W 9 CCCCCA Elevation Method</p> <p>Well Address 100 BROADWAY ALBERT LEA MN</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>GRAVEL/SAND/FILL</td> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>8</td> </tr> <tr> <td>SILTY CLAY</td> <td>BRN/GRY</td> <td>MEDIUM</td> <td>8</td> <td>26</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	GRAVEL/SAND/FILL	BROWN	MEDIUM	0	8	SILTY CLAY	BRN/GRY	MEDIUM	8	26	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 26 ft.</td> <td style="width:33%;">Depth Completed 18 ft.</td> <td style="width:33%;">Date Well Completed 01/04/1994</td> </tr> <tr> <td colspan="3">Drilling Method Auger (non-specified)</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Monitor well</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter 2 in. to 8 ft.</td> <td>Weight 3.65 lbs./ft.</td> <td>Hole Diameter 8 in. to 24 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make WIREWOUND Type stainless steel</td> </tr> <tr> <td>Diameter 2</td> <td>Slot/Gauze 10</td> <td>Length 10</td> </tr> <tr> <td colspan="3">Set Between 8 ft. and 18 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 6.2 ft. from Land surface Date Measured 01/04/1994</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3" style="text-align: center;"><i>NO REMARKS</i></td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 4 ft. 1 bags</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> <u>HOLMEN, G.</u> License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> <tr> <td>First Bedrock Last Strat No Record</td> <td>Aquifer Depth to Bedrock ft.</td> <td></td> </tr> <tr> <td colspan="2">County Well Index Online Report</td> <td style="text-align: right;">Printed 6/25/2008 HE-01205-07</td> </tr> </table>	Well Depth 26 ft.	Depth Completed 18 ft.	Date Well Completed 01/04/1994	Drilling Method Auger (non-specified)			Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Monitor well			Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.			Casing Diameter 2 in. to 8 ft.	Weight 3.65 lbs./ft.	Hole Diameter 8 in. to 24 ft.	Open Hole from ft. to ft.			Screen YES Make WIREWOUND Type stainless steel			Diameter 2	Slot/Gauze 10	Length 10	Set Between 8 ft. and 18 ft.			Static Water Level 6.2 ft. from Land surface Date Measured 01/04/1994			PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			<i>NO REMARKS</i>			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 4 ft. 1 bags			Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material			Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> <u>HOLMEN, G.</u> License Business Name Lic. Or Reg. No. Name of Driller			First Bedrock Last Strat No Record	Aquifer Depth to Bedrock ft.		County Well Index Online Report		Printed 6/25/2008 HE-01205-07
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First Bedrock Last Strat No Record	Aquifer Depth to Bedrock ft.																																																																																	
County Well Index Online Report		Printed 6/25/2008 HE-01205-07																																																																																

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 04/01/2008
Received Date

Minnesota Unique Well No.

538788

County Freeborn
Quad Albert Lea East
Quad ID 10A

*Minnesota Statutes Chapter
1031*

Well Name				Well Depth		Depth Completed		Date Well Completed		
Township Range Dir Section Subsections Elevation				ft.		ft.				
102	21	W	9	CCCCDA	Elevation Method	1219 ft.		Calc from DEM (USGS 7.5 min or equiv.)		
				Drilling Method		--				
				Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No				
				--		From Ft. to Ft.				
				Use						
				Casing Type		Joint		No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No
				No Above/Below		ft.				
				Casing Diameter		Weight		Hole Diameter		
				Open Hole from ft. to ft.						
				Screen		Make		Type		
				Diameter		Slot/Gauze		Length		Set Between
Geological Material		Color		Hardness		From		To		
NO RECORD						0		0		
				Static Water Level						
				ft.		from		Date Measured		
				PUMPING LEVEL (below land surface)						
				ft.		after		hrs. pumping		g.p.m.
				Well Head Completion						
				Pitless adapter manufacturer		Model				
				<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade				
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
<i>NO REMARKS</i>				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Located Minnesota Department of Health				Method GPS SA Off (averaged)						
Unique Number Verification N/A				Date N/A						
System UTM - Nad83, Zone15, Meters				X: 470356 Y: 4832432						
				Nearest Known Source of Contamination						
				_feet		_direction		_type		
				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Pump <input type="checkbox"/> Not Installed Date Installed						
				Manufacturer's name		Model number		HP		Volts
				Length of drop Pipe		_ft.		Capacity		_g.p.m. Type Material
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>						
				Yes <input type="checkbox"/> No						

First Bedrock Last Strat No Record	Aquifer Depth to Bedrock ft.	Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		538788	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

217133

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 12/21/2005
 Received Date

Well Name INTERSTATE POWER CO NO. Township Range Dir Section Subsections Elevation 1225 ft. 102 21 W 9 CCCBB Elevation Method topographic map (+/- 5 feet)					Well Depth 1040 ft.	Depth Completed 1040 ft.	Date Well Completed 00/00/1938																																																									
Drilling Method --																																																																
Drilling Fluid --																																																																
Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																																																
Use Abandoned Status Sealed																																																																
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																																																																
Casing Diameter Weight Hole Diameter																																																																
Open Hole from ft. to 1040 ft.																																																																
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Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller																																																																
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REMARKS AQUIFER UNKNOWN, NO CASING RECORD MGS NO. 39. WELL SEALED 10-23-1990 BY 27058. ORIGINAL USE CO - COMMERCIAL. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 470351 Y: 4832569																																																																
Cuttings Yes First Bedrock Cedar Valley Group Aquifer St.Peter-Prairie Du Chien Last Strat Jordan Depth to Bedrock 89 ft.																																																																
County Well Index Online Report																																																																
217133																																																																
Printed 6/25/2008 HE-01205-07																																																																

Minnesota Unique Well No.

218063

County Freebom
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/08/1988
 Update Date 08/01/2000
 Received Date

Minnesota Statutes Chapter 103I

Well Name INTERSTATE POWER CO. NO.		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		288 ft.	288 ft.		
102	21 W 9 CCCCC	Drilling Method --			
Elevation Method					
1225 ft. 7.5 minute topographic map (+/- 5 feet)					
Geological Material DRIFT LIMESTONE Color Hardness From To 0 90 90 288		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Commercial			
		Casing Type		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/>	
		No Above/Below ft.			
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Make Type			
		Diameter		Slot/Gauze	Length Set Between
		Static Water Level		ft. from Date Measured	
PUMPING LEVEL (below land surface)		ft. after hrs. pumping g.p.m.			
Well Head Completion		Pitless adapter manufacturer Model			
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade			
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
CASING: 016 TO 0134;010 TO 0730.					
CASING: 016 TO 0134;010 TO 0730;					
LOG INFERRED FROM NEARBY WELL					
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)			
Unique Number Verification N/A		Date N/A			
System UTM - Nad83, Zone15, Meters		X: 470355 Y: 4832445			
Nearest Known Source of Contamination		_feet _direction _type			
Well disinfected upon completion?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number __ HP _ Volts			
Length of drop Pipe _ft. Capacity _g.p.m. Type Material					
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification		License Business Name Lic. Or Reg. No. Name of Driller			
First Bedrock Cedar Valley-Galena		Aquifer			
Last Strat Cedar Valley-Galena		Depth to Bedrock 90 ft.			
County Well Index Online Report		218063			
		Printed 6/25/2008 HE-01205-07			

Minnesota Unique Well No.

218064

County Freebom
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/08/1988
 Update Date 08/01/2000
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name INTERSTATE POWER CO. NO. Township Range Dir Section Subsections Elevation 1225 ft. 102 21 W 9 CCCAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 554 ft. Depth Completed 554 ft. Date Well Completed 09/00/1927 Drilling Method --</p>	
<p>Geological Material Color Hardness From To DRIFT 0 90 LIMESTONE 90 450 SHALE 450 500 LIMESTONE & SHALE & SANDSTONE 500 554</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Commercial</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen Make Type</p> <p>Diameter Slot/Gauze Length Set Between</p> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	
	<p>REMARKS AQUIFER UNCERTAIN, LOG INFERRED FROM OFFSET WELL CASING: 016 TO 0134;010 TO 0730. CASING: 016 TO 0134;010 TO 0730;</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 470410 Y: 4832592</p>	<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>
	<p>First Bedrock Cedar Valley-Galena Aquifer Last Strat Platteville-St.Peter Depth to Bedrock 90 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller</p>
	<p>County Well Index Online Report</p>	<p style="text-align: center;">218064</p> <p style="text-align: right;">Printed 6/25/2008 HE-01205-07</p>

Minnesota Unique Well No.

218065

County Freebom
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/08/1988
 Update Date 08/01/2000
 Received Date

Minnesota Statutes Chapter 103I

Well Name INTERSTATE POWER CO NO.		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		585 ft.	585 ft.	00/00/1950
102	21 W 9 CCDBC	Elevation Method topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Commercial		
		Casing Type	Joint	No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/>
		No Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
		Open Hole from ft. to ft.		
		Screen	Make	Type
		Diameter	Slot/Gauze	Length Set Between
Geological Material		Color	Hardness	From To
DRIFT				0 90
LIMESTONE				90 450
SHALE				450 500
LIMESTONE & SHALE & SANDSTONE				500 585
		Static Water Level		
		ft. from Date Measured		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CASING: 016 TO 0134;010 TO 0730.				
CASING: 016 TO 0134;010 TO 0730;				
HOLE WAS PLUGGED BACK TO 308 FT., LOG INFERRED FROM OFFSET LOG				
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number Verification N/A		Date N/A		
System UTM - Nad83, Zone15, Meters		X: 470500 Y: 4832587		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP_ Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
		<input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Cedar Valley-Galena		Aquifer Galena		
Last Strat Platteville-St.Peter		Depth to Bedrock 90 ft.		
County Well Index Online Report		218065		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

227014

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 11/28/2007
 Received Date

<p>Well Name ALBERT LEA Township Range Dir Section Subsections Elevation 1239 ft. 102 21 W 8 DCBAD Elevation Method topographic map (+/- 5 feet)</p>	<p>Well Depth 300 ft. Depth Completed 300 ft. Date Well Completed 00/00/1889 Drilling Method --</p>																																																																																																							
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>DRIFT GRAVEL</td><td></td><td></td><td>0</td><td>80</td></tr> <tr><td>SAND & GRAVEL</td><td></td><td></td><td>80</td><td>95</td></tr> <tr><td>SAND</td><td></td><td></td><td>95</td><td>105</td></tr> <tr><td>GRAVEL & SAND</td><td></td><td></td><td>105</td><td>112</td></tr> <tr><td>SAND</td><td></td><td></td><td>112</td><td>113</td></tr> <tr><td>SAND</td><td></td><td></td><td>113</td><td>114</td></tr> <tr><td>LIMESTONE & SAND</td><td></td><td></td><td>114</td><td>115</td></tr> <tr><td>SAND</td><td></td><td></td><td>115</td><td>130</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>130</td><td>143</td></tr> <tr><td>SHALE</td><td></td><td></td><td>143</td><td>155</td></tr> <tr><td>SHALE</td><td></td><td></td><td>155</td><td>160</td></tr> <tr><td>SHALE</td><td></td><td></td><td>160</td><td>213</td></tr> <tr><td>SHALE</td><td>WHITE</td><td></td><td>213</td><td>220</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>220</td><td>234</td></tr> <tr><td>SAND</td><td>WHITE</td><td></td><td>234</td><td>236</td></tr> <tr><td>SAND</td><td>WHITE</td><td></td><td>236</td><td>240</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>240</td><td>300</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	DRIFT GRAVEL			0	80	SAND & GRAVEL			80	95	SAND			95	105	GRAVEL & SAND			105	112	SAND			112	113	SAND			113	114	LIMESTONE & SAND			114	115	SAND			115	130	LIMESTONE			130	143	SHALE			143	155	SHALE			155	160	SHALE			160	213	SHALE	WHITE		213	220	LIMESTONE			220	234	SAND	WHITE		234	236	SAND	WHITE		236	240	LIMESTONE			240	300	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> </tbody> </table> <p>Static Water Level 22 ft. from Land surface Date Measured 1985</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	Open Hole from ft. to ft.			Screen	Make	Type	Diameter	Slot/Gauze	Length	Set Between
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<p>REMARKS LOCATED BY CITY MAN UNUSED.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A Verification Other, note in remarks System UTM - Nad83, Zone15, Meters X: 469980 Y: 4832787</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>																																																																																																							
<p>Cuttings Yes Borehole Geophysics Yes</p> <p>First Bedrock Cedar Valley Group Aquifer Last Strat Dubuque-Galena Depth to Bedrock 130 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller SWANSON</p>																																																																																																							
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">227014</p> <p style="text-align: right;">Printed 6/25/2008 HE-01205-07</p>																																																																																																							

Minnesota Unique Well No.

249066

County Freeborn
 Quad Albert Lea East
 Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/02/1994
 Update Date 11/28/2007
 Received Date

Well Name FREEBORN FOODS Township Range Dir Section Subsections Elevation 1222 ft. 102 21 W 17 ABABAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 218 ft. Depth Completed 218 ft. Date Well Completed 1936 Drilling Method Cable Tool
Well Address BOX 1186 ALBERT LEA MN 56007		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material NO RECORD Color Hardness From 0 To 218		Use Industrial Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
		Casing Diameter 8 in. to 218 ft. Weight lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen NO Make Type
		Diameter Slot/Gauze Length Set Between
		Static Water Level 22 ft. from Land surface Date Measured 1983
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 02/25/2001 System UTM - Nad83, Zone15, Meters X: 469764 Y: 4832388		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Last Strat		Well Contractor Certification Minnesota Dept. of Natural Resources MNDNR CUMMINGS License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		249066 Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

256866

County Freeborn
 Quad Albert Lea East
 Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/21/2005
 Update Date 11/28/2007
 Received Date

Well Name INTERSTATE POWER CO. Township Range Dir Section Subsections Elevation 1217 ft. 102 21 W 9 CCDBAD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 387 ft.	Depth Completed 387 ft.	Date Well Completed
		Drilling Method Cable Tool		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use		
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
		Casing Diameter 20 in. to ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen Make Type		
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level -1 ft. from Top of casing extension Date Measured 12/21/2005		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS TOP OF CASING IS ABOUT 6 FT. BELOW GRADE IN A BASEMENT TYPE PUMPHOUSE. WELL FLOWS. GAMMA LOGGED 12-21-2005. OBSTRUCTION AT 389 FEET.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe __ft. Capacity __g.p.m. Type Material		
Unique Number Verification Information from owner Date 12/21/2005				
System UTM - Nad83, Zone15, Meters X: 470553 Y: 4832576				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Borehole Geophysics Yes		Well Contractor Certification Minnesota Geological Survey <u>MGS</u> License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Lower Cedar Valley Aquifer				
Last Strat Galena Depth to Bedrock 92 ft.				
County Well Index Online Report		256866		Printed 6/25/2008 HE-01205-07

SITE SUMMARY

Site Name: Apple Valley 140th Street

Fire Department: Apple Valley Fire Department
7100 147th Street West
Apple Valley, MN 55124

Site Contact: Nealon Thompson, Deputy Chief
952-953-2600
nthompson@ci.apple-valley.mn.us

Training Location: Fire Station #1, 15000 Hayes Rd; and, Apple Valley central maintenance facility, 6442 140th St. W.

Type of foam used in training: Angus AFFF
Angus Tridex AR-AFF
Angus Hi-Combat Class A

Foam training frequency: Bi-Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Storm sewer, sanitary sewer, ground

Annual foam use: AFFF - 3 gallons (historical use only)
AR-AFF - 15 gallons
Class A - 10 gallons

Nearest surface water: Alimagnet Lake located approximately 0.7 miles northwest of Hayes Road training site; unidentified pond approximately 0.7 mile north-northeast of 140th Street training site.

Nearest wetland: <1/8 mile northeast for the Hayes Road training site; <1/4 mile south-southwest for the 140th Street training site.

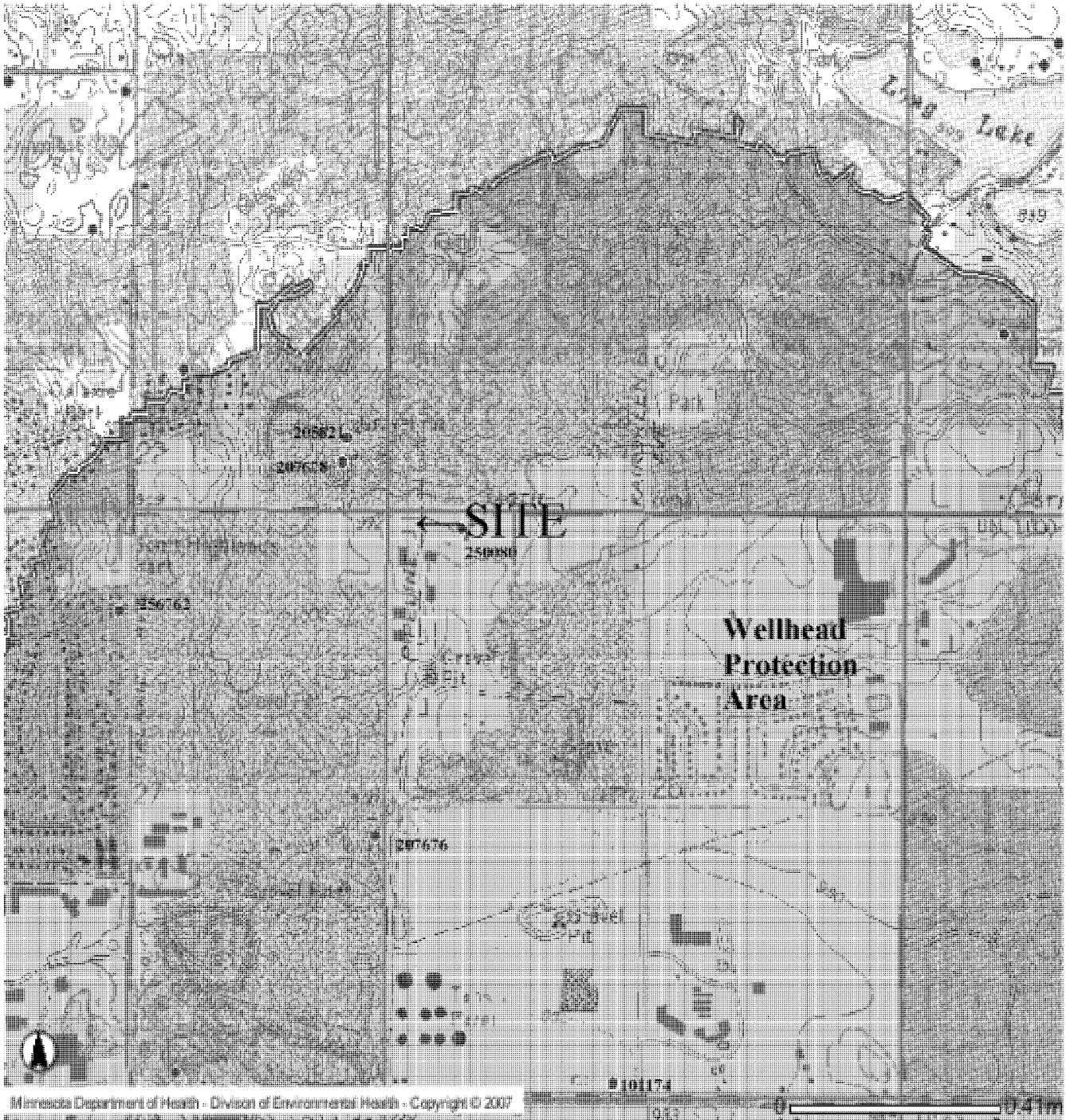
Karst Area: Training site located in covered karst area.

Nearest water well: <1/4 mile southwest for the Hayes Road training site; <1/8 mile east for the 140th Street training site.

Nearest Wellhead Protection Area: <1/3 mile southwest for the Hayes Road training site; the 140th Street training site is located within a Wellhead Protection Area.

SITE RANKING: 16

APPLE VALLEY 140th Street CWI Well Map



Apple Valley 140th Street What's In My Neighborhood

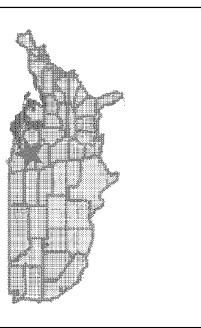
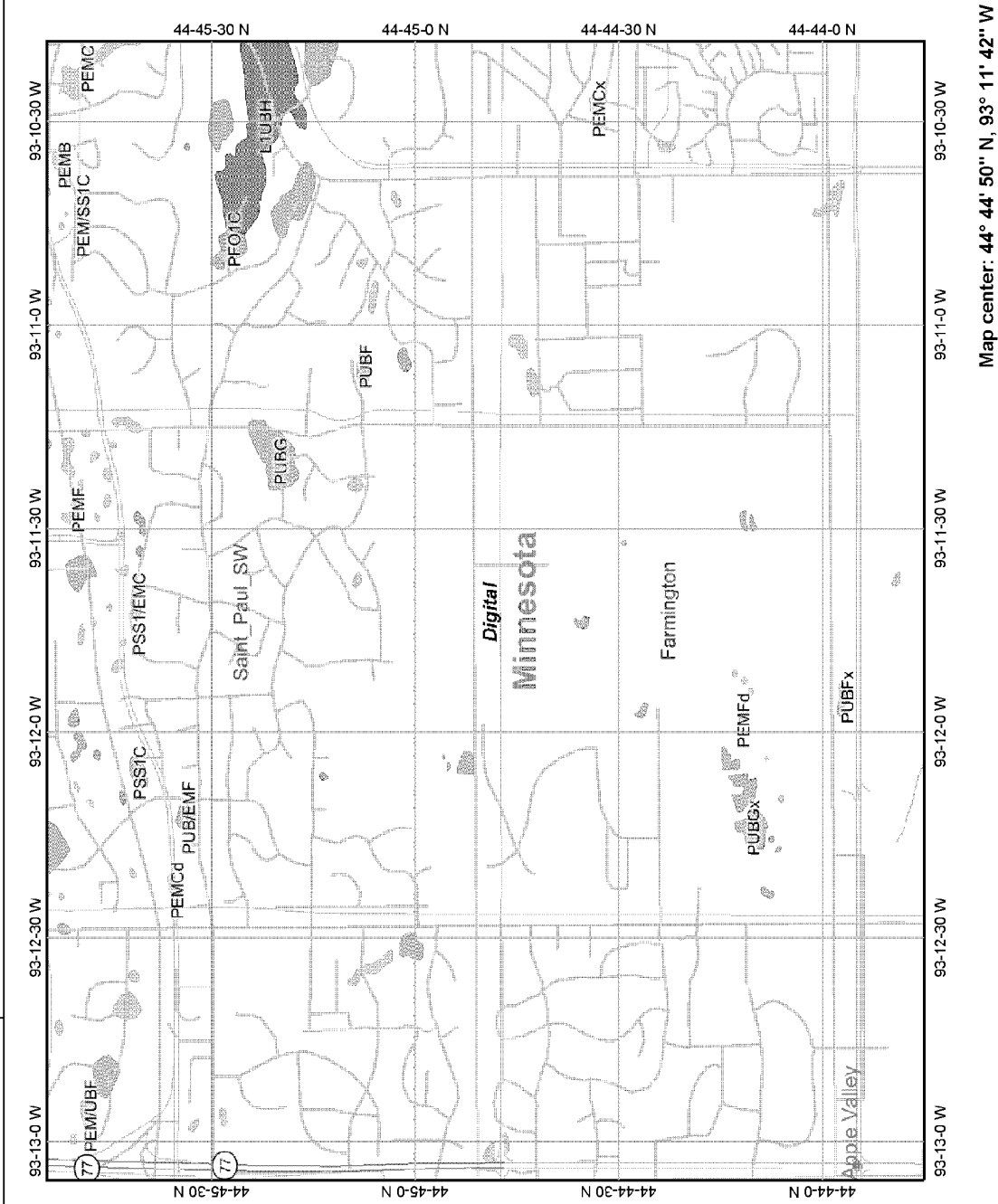


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Apple Valley 140th St Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,882

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Map center: 44° 44' 50" N, 93° 11' 42" W

Minnesota Unique Well No.

101174

County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
 Update Date 03/21/2006
 Received Date

Well Name NORTHSTAR CONCRETE Township Range Dir Section Subsections Elevation 984 ft. 115 20 W 26 CDDDCB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 240 ft.	Depth Completed 240 ft.	Date Well Completed 04/27/1977																											
Drilling Method Non-specified Rotary					Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																											
Well Address 6055 150TH ST W APPLE VALLEY MN 55124 <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>GRAVEL</td> <td>BROWN</td> <td></td> <td>0</td> <td>156</td> </tr> <tr> <td>SANDSTONE</td> <td>YELLOW</td> <td>SOFT</td> <td>156</td> <td>182</td> </tr> <tr> <td>SANDSTONE</td> <td>GRAY</td> <td>MEDIUM</td> <td>182</td> <td>220</td> </tr> <tr> <td>LIMESTONE</td> <td>GRAY</td> <td>HARD</td> <td>220</td> <td>240</td> </tr> </tbody> </table>					Geological Material	Color	Hardness	From	To	GRAVEL	BROWN		0	156	SANDSTONE	YELLOW	SOFT	156	182	SANDSTONE	GRAY	MEDIUM	182	220	LIMESTONE	GRAY	HARD	220	240	Use Domestic				
					Geological Material	Color	Hardness	From	To																									
					GRAVEL	BROWN		0	156																									
					SANDSTONE	YELLOW	SOFT	156	182																									
SANDSTONE	GRAY	MEDIUM	182	220																														
LIMESTONE	GRAY	HARD	220	240																														
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.					<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 190 ft.</td> <td>lbs./ft.</td> <td>4 in. to 240 ft.</td> </tr> </tbody> </table>				Casing Diameter	Weight	Hole Diameter	4 in. to 190 ft.	lbs./ft.	4 in. to 240 ft.																				
Casing Diameter	Weight	Hole Diameter																																
4 in. to 190 ft.	lbs./ft.	4 in. to 240 ft.																																
Open Hole from 190 ft. to 240 ft.					<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Screen NO</th> <th style="text-align: left;">Make</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Screen NO	Make	Type																							
Screen NO	Make	Type																																
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Diameter	Slot/Gauze	Length	Set Between					Static Water Level 92 ft. from Land surface Date Measured 04/27/1977																					
Diameter	Slot/Gauze	Length	Set Between																															
PUMPING LEVEL (below land surface) 102 ft. after 2 hrs. pumping 40 g.p.m.					Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																													
NO REMARKS					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft.																													
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Nearest Known Source of Contamination 75 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																													
Unique Number Verification N/A Date N/A					Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name DEMING Model number __ HP 0.75 Volts 14 Length of drop Pipe 110 ft. Capacity __g.p.m Type Submersible Material																													
System UTM - Nad83, Zone15, Meters X: 485094 Y: 4953231					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
First Bedrock St.Peter Aquifer St.Peter-Prairie Du Chien Last Strat Prairie Du Chien Group Depth to Bedrock 156 ft.					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Ryan Well Co. 19063 BOHN, G. License Business Name Lic. Or Reg. No. Name of Driller																													
County Well Index Online Report					101174		Printed 6/25/2008 HE-01205-07																											

Minnesota Unique Well No.

205821

County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
 Update Date 02/22/2007
 Received Date

Well Name OSCAR ROBERTS CO.		Well Depth 493 ft.	Depth Completed 493 ft.	Date Well Completed 12/10/1965
Township Range Dir Section Subsections Elevation 115 20 W 22 DDACDD Elevation Method		1015 ft. 7.5 minute topographic map (+/- 5 feet)		
Drilling Method Cable Tool				
Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Industrial				
Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/>		Yes <input type="checkbox"/> No Above/Below ft.		
Casing Diameter		Weight	Hole Diameter	
16 in. to 73 ft.		lbs./ft.		
12 in. to 276 ft.		lbs./ft.		
Open Hole from 276 ft. to 493 ft.				
Screen NO Make Type				
Diameter	Slot/Gauze	Length	Set Between	
Static Water Level 136 ft. from Land surface Date Measured 12/10/1965				
PUMPING LEVEL (below land surface) 154 ft. after hrs. pumping 1200 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input checked="" type="checkbox"/> Not Installed Date Installed 12/00/1965 Manufacturer's name <u>JACUZZI</u> Model number ___ HP <u>100</u> Volts Length of drop Pipe <u>200</u> ft. Capacity <u>1200</u> g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification <u>Renner E.H. & Sons</u> <u>27015</u> <u>SIGAFOOS,</u> <u>G.</u> License Business Name Lic. Or Reg. No. Name of Driller				
Geological Material Color Hardness From To CLAY BROWN 0 12 GRAVEL AND BOULDERS 12 60 CLAY AND STONES BLUE 60 73 LIMESTONE BROWN 73 105 ST. PETER SANDSTONE BROWN 105 108 ST. PETER SANDSTONE WHITE 108 209 ST. PETER SANDSTONE WHITE 209 235 ST. PETER SANDSTONE TAN 235 255 SHAKOPEE LIMESTONE TAN 255 270 SHAKOPEE LIMESTONE WHITE 270 332 SHAKOPEE LIMESTONE DARK 332 450 JORDAN SANDSTONE WHITE 450 493				
REMARKS GAMMA & CALIPER LOGGED AND TV 9-12-2000. 12 IN. CASING TO 250 FT. CASING PROBABLY CUT OFF AS PIT WAS DEEPENED. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 484261 Y: 4955005				
Borehole Geophysics Yes First Bedrock Platteville Aquifer Multiple Last Strat Jordan Depth to Bedrock 73 ft.				
County Well Index Online Report		205821		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

207676

County Dakota
 Quad Farmington
 Quad ID 88B

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
 Update Date 03/21/2006
 Received Date

<p>Well Name AMCO WAREHOUSE Township Range Dir Section Subsections Elevation 957 ft. 115 20 W 27 DAADAB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>		<p>Well Depth 220 ft. Depth Completed 220 ft. Date Well Completed 11/29/1973 Drilling Method --</p>	
<p>Well Address 150TH ST W APPLE VALLEY MN 55124</p>		<p>Drilling Fluid -- From Ft. to Ft. Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Geological Material GRAVEL SANDSTONE, LIMESTONE</p>		<p>Use Commercial Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft. Casing Diameter 6 in. to 141 ft. Weight lbs./ft. Hole Diameter</p>	
<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>		<p>Open Hole from 141 ft. to 220 ft. Screen NO Make Type Diameter Slot/Gauze Length Set Between</p>	
<p>Static Water Level 65 ft. from L and surface Date Measured 11/29/1973 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>		<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>REMARKS WELL DRILLED BY GENZ-RYAN.</p>		<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Located Minnesota Geological Survey Table) Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone 15, Meters X: 484351 Y: 4953911</p>		<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 03/19/1974 Manufacturer's name JACUZZI Model number 7556B8-T2 HP 7.5 Volts 230 Length of drop Pipe 108 ft Capacity _g.p.m Type Material</p>	

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>First Bedrock St. Peter-Prairie Du Chien Last Strat St. Peter-Prairie Du Chien</p>	<p>Aquifer St. Peter-Prairie Du Chien Depth to Bedrock 138 ft.</p>
<p>License Business Name Lic. Or Reg. No. Name of Driller HELGESON, J. 207676</p>	
<p>County Well Index Online Report</p>	
<p>Printed 6/25/2008 HE-01205-07</p>	

Minnesota Unique Well No.

207678

County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
 Update Date 03/21/2006
 Received Date

Well Name OSCAR ROBERTS CO. Township Range Dir Section Subsections Elevation 1008 ft. 115 20 W 22 DDDDBB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 333 ft. Depth Completed 333 ft. Date Well Completed 05/06/1974 Drilling Method Multiple methods used															
Well Address 140TH ST W APPLE VALLEY MN 55124 Geological Material Color Hardness From To GRAVEL & ROCKS BROWN 0 65 LIMESTONE BRN/GRY 65 94 SHALE & SANDSTONE VARIED 94 240 LIMESTONE GRAY 240 333		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.															
		Use Industrial															
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.															
		Casing Diameter Weight Hole Diameter 8 in. to 261 ft. lbs./ft. 8 in. to 333 ft.															
		Open Hole from 261 ft. to 333 ft.															
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
		Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between									
		Static Water Level 125 ft. from Land surface Date Measured 05/06/1974															
		PUMPING LEVEL (below land surface) ft. after hrs. pumping 300 g.p.m.															
Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																	
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																	
<p style="text-align: center;"><i>NO REMARKS</i></p> Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Other, note in remarks Date 09/25/2000 System UTM - Nad83, Zone15, Meters X: 484247 Y: 4954937		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No															
First Bedrock Platteville Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 65 ft.		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 00/00/1974 Manufacturer's name RED JACKET Model number __ HP 7.5 Volts 440 Length of drop Pipe 109 ft. Capacity 55 g.p.m Type Submersible Material															
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Renner E.h. & Sons 02015 PAUL/RAY License Business Name Lic. Or Reg. No. Name of Driller															

Printed 6/25/2008
 HE-01205-07

Minnesota Unique Well No.

256762

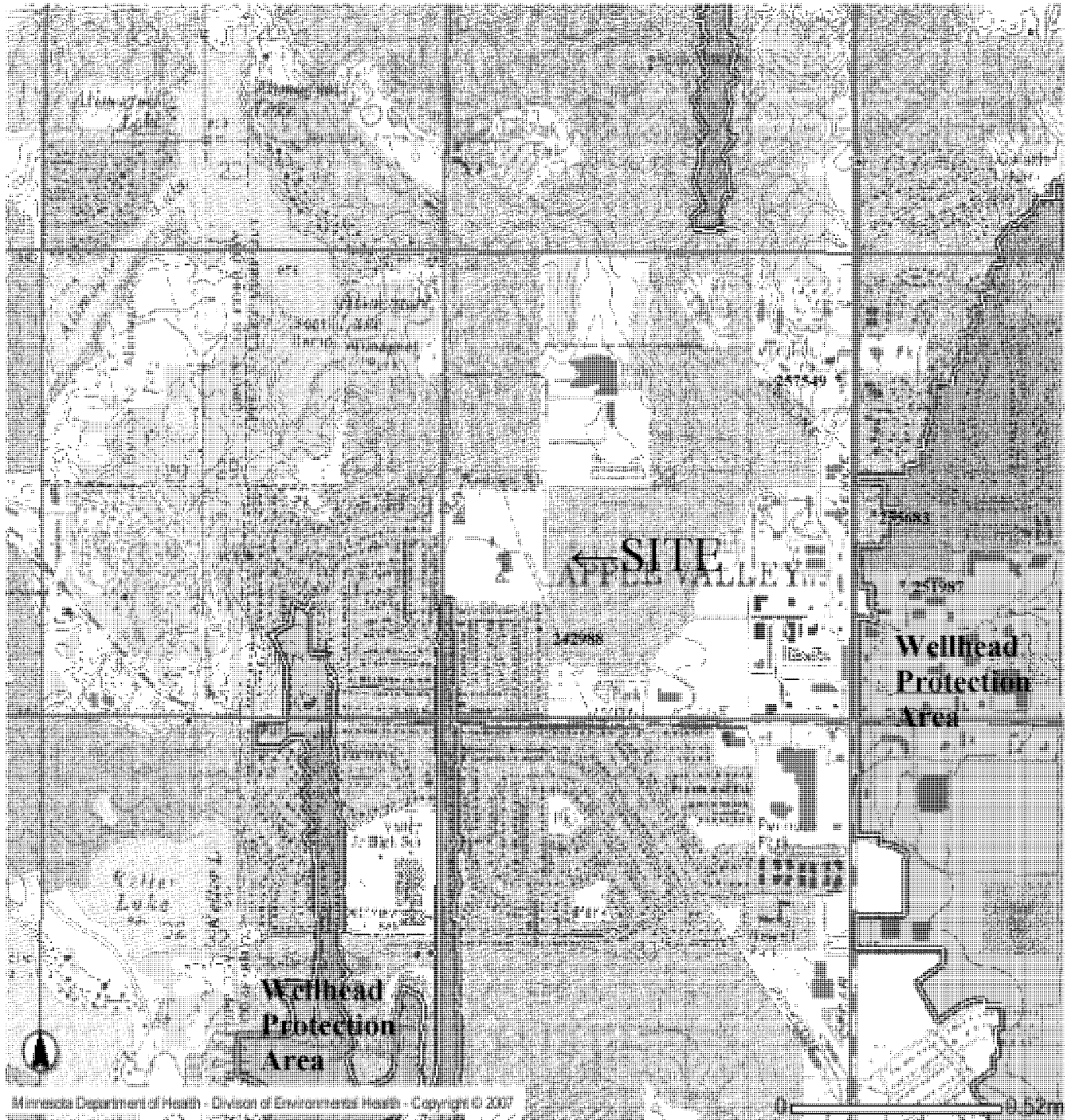
County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/06/2005
 Update Date 03/21/2006
 Received Date

Well Name KIDWELL, ALICIA Township Range Dir Section Subsections Elevation 965 ft. 115 20 W 27 BADADC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 78 ft.	Depth Completed 78 ft.	Date Well Completed 0
Drilling Method --		Drilling Fluid --		
Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Domestic		
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter 5 in. to ft. Weight lbs/ft. Hole Diameter		
Open Hole from ft. to ft.		Screen Make Type		
Geological Material GLACIAL DRIFT Color Hardness From 0 To 77		Diameter Slot/Gauze Length Set Between		
Static Water Level 62 ft. from Land surface Date Measured 06/06/2005		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
REMARKS GAMMA LOGGED 6-6-2005. WELL TO BE SEALED SEALING NO. H-228844. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Date 06/06/2005 Verification Information from owner System UTM - Nad83, Zone13, Meters X: 483546 Y: 4954529		Nearest Known Source of Contamination 0 feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Aquifer Last Strat Unknown deposit type Depth to Bedrock ft.		County Well Index Online Report		
256762		Printed 6/25/2008 HE-01205-07		

-APPLE VALLEY Hayes Road CWI Well Map



Apple Valley Hayes Rd What's In My Neighborhood

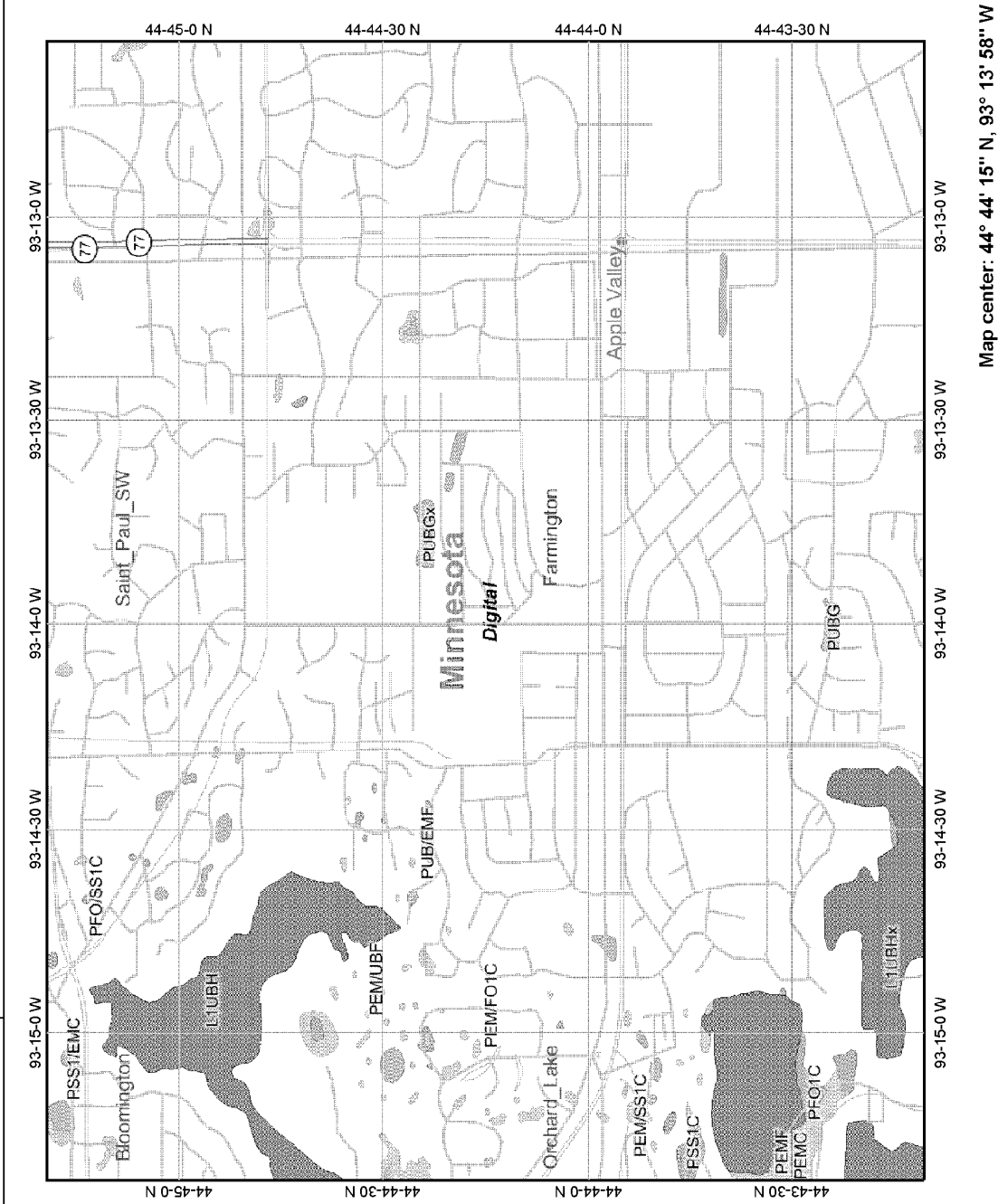


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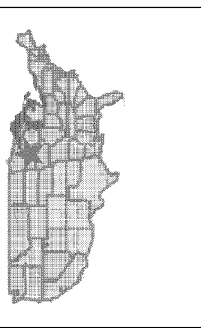
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Apple Valley Wetland Map



Map center: 44° 44' 15" N, 93° 13' 58" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
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- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:27,882

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Minnesota Unique Well No.

251987

County Dakota
 Quad Farmington
 Quad ID 88B

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 1031

Entry Date 01/28/1999
 Update Date 08/04/2005
 Received Date

Well Name MINNEHAHA MURSBERY Township Range Dir Section Subsections Elevation 115 20 W 27 CBCDAD Elevation Method 955 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 340 ft. Depth Completed 340 ft.	Date Well Completed 01/28/1999
Drilling Method --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Abandoned Status Sealed		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1.5 ft.	
Casing Diameter 8 in. to 166 ft.		Weight lbs./ft.	Hole Diameter
Open Hole from 166 ft. to 340 ft.		Screen NO Make Type	
Diameter		Slot/Gauze	Length
Static Water Level 66 ft. from Land surface Date Measured 01/28/1999		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.	
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	
REMARKS GAMMA LOGGED 1-28-1999. WELL SEALED 02-09-1999 BY 70350 ORIGINAL USE IR - IRRIGATION		Nearest Known Source of Contamination _feet _direction _type <input type="checkbox"/> Yes <input type="checkbox"/> No Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone 15, Meters X: 482960 Y: 4953663		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material	

<p>Borehole Geophysics Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>First Bedrock St.Peter</p> <p>Last Strat Prairie Du Chien Group</p> <p>Aquifer St.Peter-Prairie Du Chien</p> <p>Depth to Bedrock 161 ft.</p>		<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>County Well Index Online Report</p>		<p>Well Contractor Certification</p> <p>Minnesota Geological Survey <u>MGS</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p> <p>251987</p>	
		<p>Printed 6/25/2008 HE-01205-07</p>	

Minnesota Unique Well No.

255683

County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/22/2003
 Update Date 01/06/2005
 Received Date

Well Name Township Range Dir Section Subsections Elevation 955 ft. 115 20 W 27 CBBBDA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 177 ft.		Depth Completed 177 ft.		Date Well Completed									
					Drilling Method --													
					Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.											
					Use Domestic													
					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/>													
					Yes <input type="checkbox"/> No Above/Below ft.													
					Casing Diameter 4 in. to 162 ft.		Weight lbs./ft.		Hole Diameter 4 in. to 177 ft.									
Well Address 14515 GLAZER AV APPLE VALLEY MN 55124					Open Hole from 162 ft. to 177 ft.													
					Screen NO		Make		Type									
Geological Material					Color		Hardness		<table border="1"> <thead> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>49</td> </tr> <tr> <td>49</td> <td>58</td> </tr> <tr> <td>58</td> <td>177</td> </tr> </tbody> </table>		From	To	0	49	49	58	58	177
From	To																	
0	49																	
49	58																	
58	177																	
GLACIAL DRIFT GLENWOOD SHALE ST. PETER SANDSTONE																		
					Static Water Level 67 ft. from Land surface Date Measured 03/26/2001													
					PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.													
					Well Head Completion Pitless adapter manufacturer Model													
					<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade													
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)													
REMARKS GAMMA LOGGED 3-26-2001.					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No													
Located Minnesota Geological Survey					Method Digitization (Screen) - Map (1:24,000)													
Unique Number					Date N/A													
Verification Information from owner																		
System UTM - Nad83, Zone15, Meters					X: 482845 Y: 4953907													
					Nearest Known Source of Contamination __feet __direction __type													
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No													
					Pump <input type="checkbox"/> Not Installed Date Installed													
					Manufacturer's name Model number __ HP __ Volts													
					Length of drop Pipe __ft. Capacity __g.p.m Type Material													
					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>													
					Yes <input type="checkbox"/> No													
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No													
Borehole Geophysics Yes					Well Contractor Certification													
First Bedrock Glenwood					Minnesota Geological Survey MGS													
Last Strat St.Peter					License Business Name Lic. Or Reg. No. Name of Driller													
Aquifer St.Peter																		
Depth to Bedrock 49 ft.																		
County Well Index Online Report					255683				Printed 6/25/2008 HE-01205-07									

Minnesota Unique Well No.

257549

County Dakota
 Quad Farmington
 Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/27/2007
 Update Date 08/01/2007
 Received Date

Well Name OLD PARSONAGE Township Range Dir Section Subsections Elevation 971 ft. 115 20 W 28 ADAABA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 126 ft.	Depth Completed 126 ft.	Date Well Completed
Drilling Method --		Drilling Fluid --		
Well Address 14201 CEDAR AV S APPLE VALLEY MN 55124		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material GLACIAL DRIFT PLATTEVILLE LIMESTONE (WEATHERED) GLENWOOD SHALE ST. PETER SANDSTONE		Use Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Color Hardness From To 0 55 55 66 66 78 78 126		Casing Diameter 4 in. to 59 ft.	Weight lbs./ft.	Hole Diameter 4 in. to 126 ft.
Open Hole from 59 ft. to 126 ft.		Screen NO Make Type		
Diameter Slot/Gauze Length Set Between		Static Water Level 64 ft. from Land surface Date Measured 07/27/2007		
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS GAMMA LOGGED 7-27-2007. FROM 55 TO 68 FEET MAYBE WEATHERED BEDROCK.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Information from owner Date 07/27/2007		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 482707 Y: 4954375		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Borehole Geophysics Yes		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Platteville Aquifer St.Peter		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Last Strat St.Peter Depth to Bedrock 55 ft.		Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		257549		Printed 6/25/2008 HE-01205-07

SITE SUMMARY

Site Name: Appleton

Fire Department: Appleton Fire Department
230 W. Snelling Avenue
Appleton, MN 56208

Site Contact: Roman Ridler, Assistant Fire Chief
320-289-1363
roman_56255@hotmail.com

Training Location: Appleton Public Works building, 427 S. Munsterman Street,
Appleton

Type of foam used in training: Ansulite 3x3 AR-AFFF
Silv-ex Class A

Foam training frequency: Semi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF - Less than 15 gallons
Class A - Less than 15 gallons

Nearest surface water: Pomme de Terre River located approximately 0.4 miles east

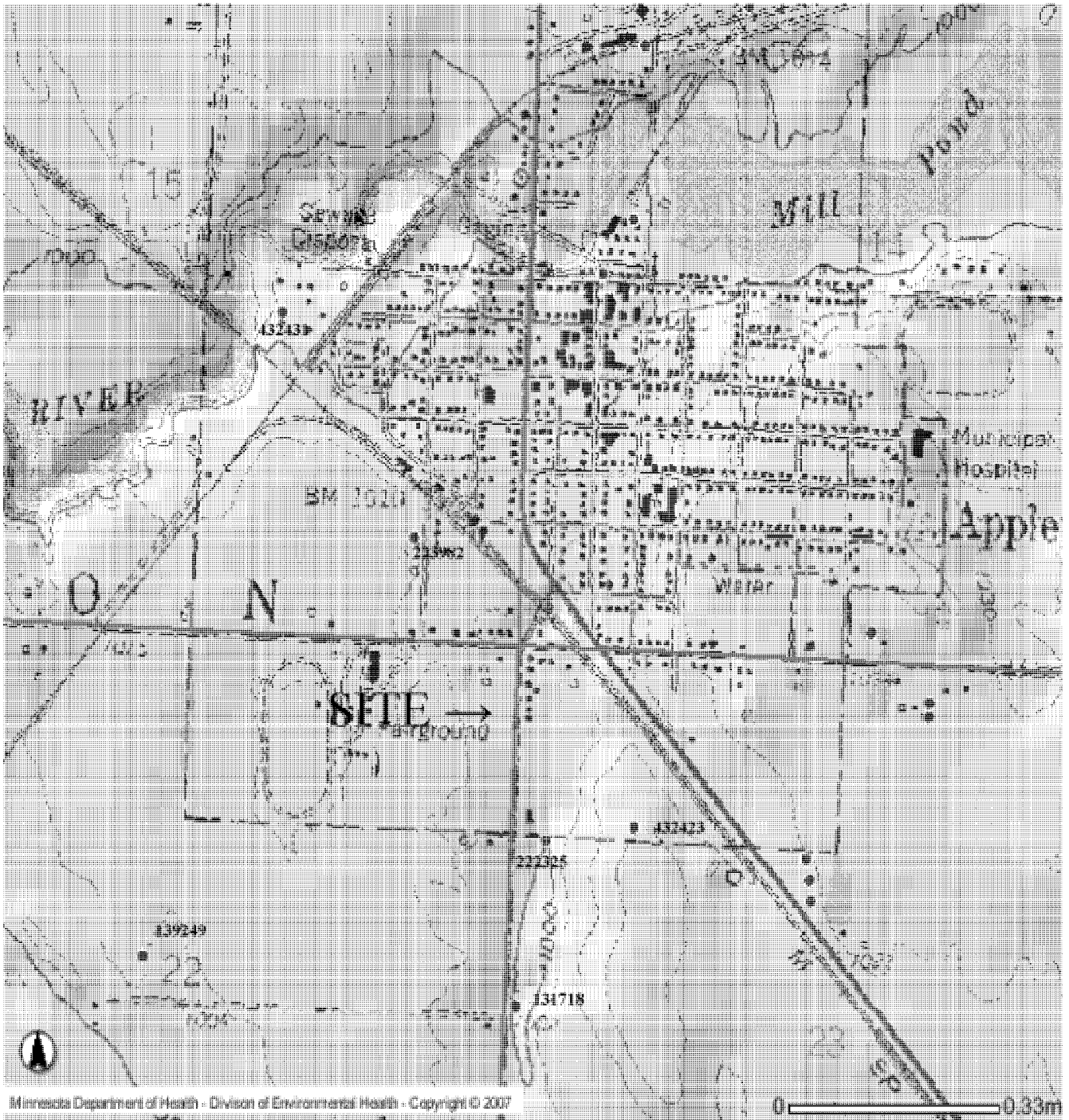
Nearest wetland: 1/8 to 1/4 mile east

Nearest water well: approximately 1/4 mile southeast

Nearest Wellhead Protection Area: None within one mile

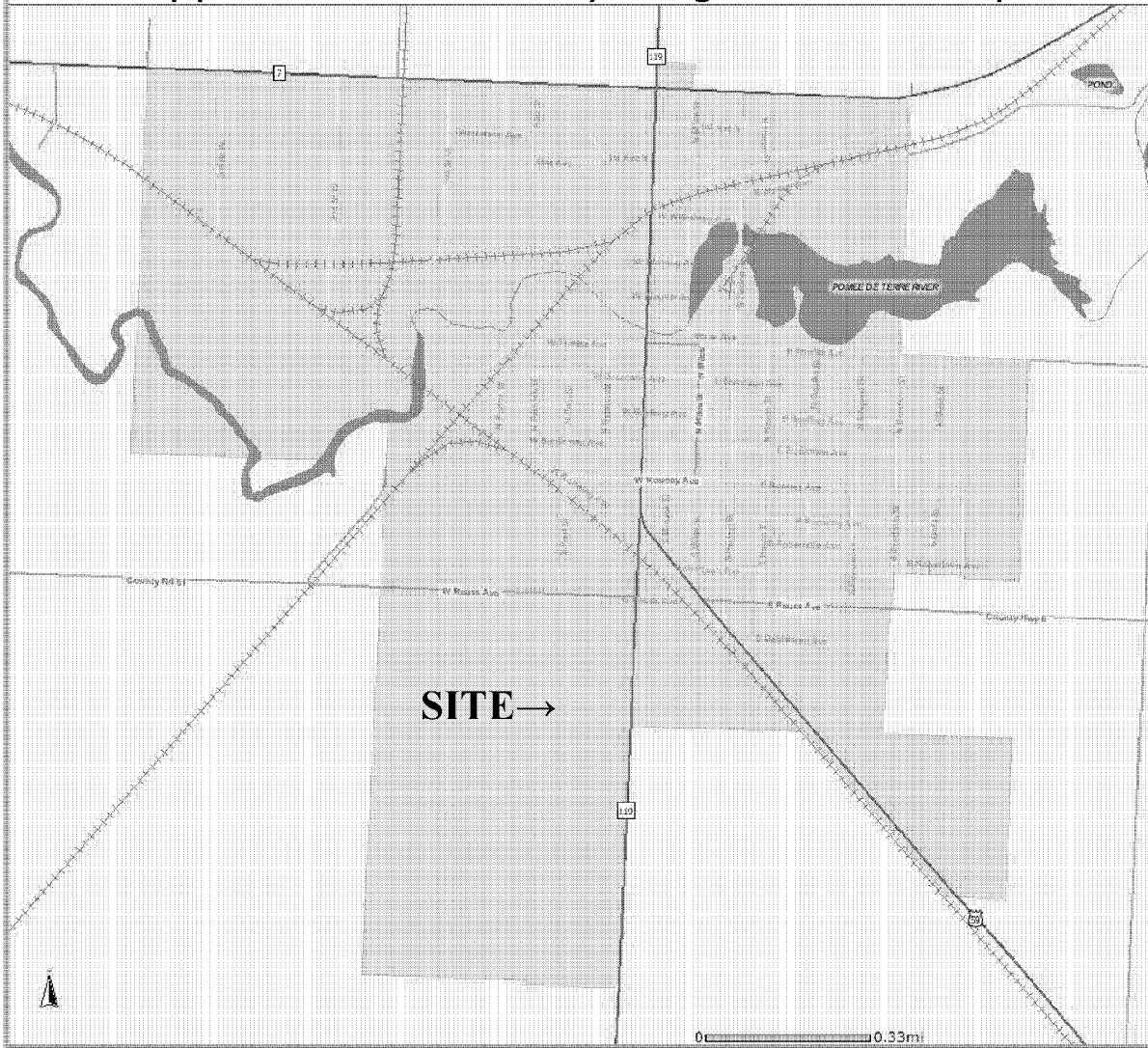
SITE RANKING: 11

APPLETON CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Appleton What's In My Neighborhood Map

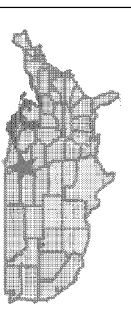
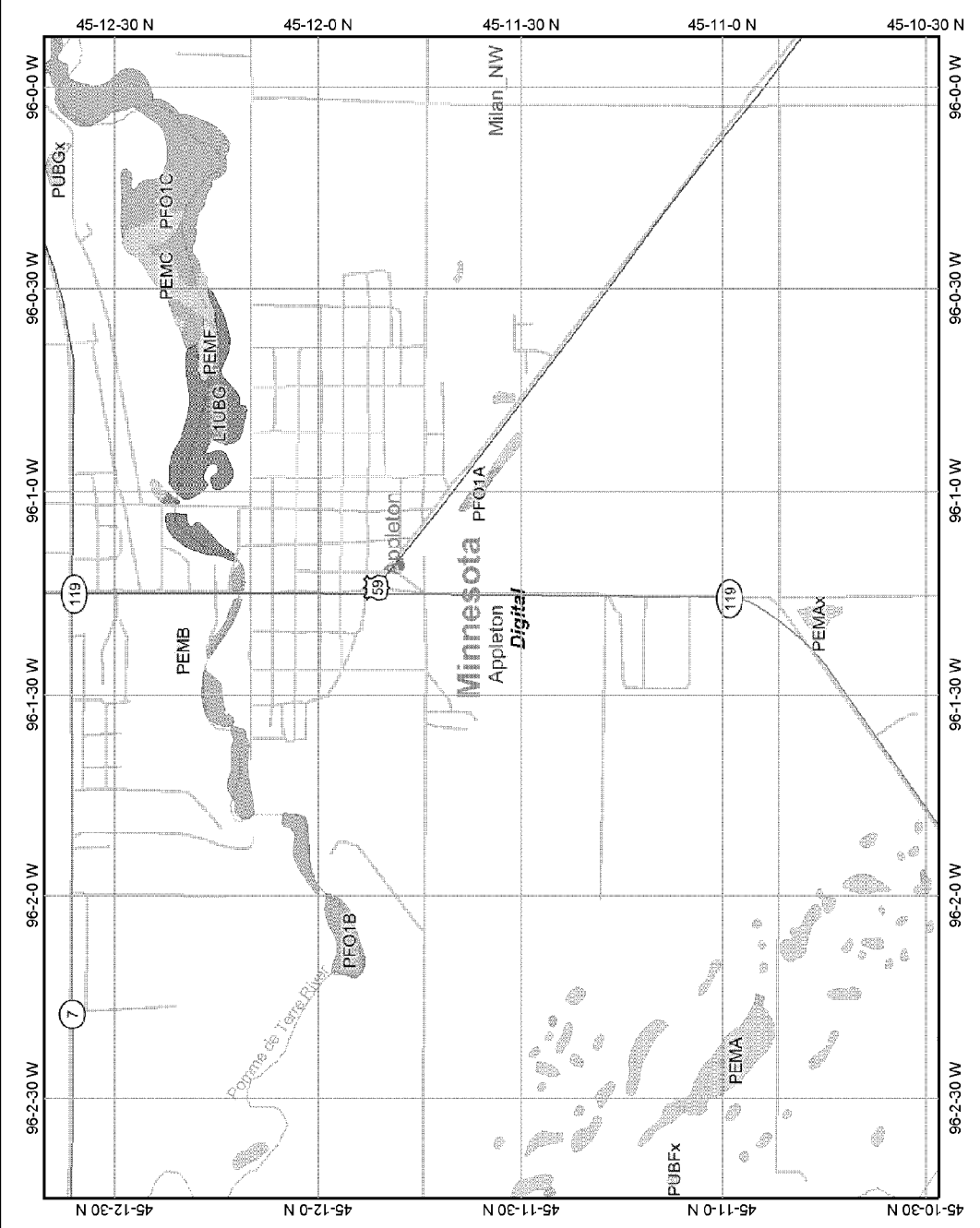


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Appleton Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:28,684

Map center: 45° 11' 34" N, 96° 1' 19" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

131718

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/17/1988
 Update Date 08/27/1996
 Received Date

<p>Well Name LAGRANGE, DERALL NO.2 Township Range Dir Section Subsections Elevation 1000 ft. 120 43 W 23 BCCCCC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address RR 1 BOX 6 APPLETON MN 56208</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOPSOIL</td><td>BLACK</td><td>SOFT</td><td>0</td><td>4</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td>SOFT</td><td>4</td><td>8</td></tr> <tr><td>COARSE GRAVEL</td><td>GRAY</td><td>SOFT</td><td>8</td><td>25</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>MEDIUM</td><td>25</td><td>48</td></tr> <tr><td>FINE SAND</td><td>GRAY</td><td>SOFT</td><td>48</td><td>75</td></tr> <tr><td>COARSE SAND</td><td>GRAY</td><td>SOFT</td><td>75</td><td>135</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>SOFT</td><td>135</td><td>136</td></tr> <tr><td>COARSE SAND</td><td>GRAY</td><td>SOFT</td><td>136</td><td>162</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOPSOIL	BLACK	SOFT	0	4	SANDY CLAY	BROWN	SOFT	4	8	COARSE GRAVEL	GRAY	SOFT	8	25	CLAY	GRAY	MEDIUM	25	48	FINE SAND	GRAY	SOFT	48	75	COARSE SAND	GRAY	SOFT	75	135	CLAY	BLUE	SOFT	135	136	COARSE SAND	GRAY	SOFT	136	162	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth 162 ft.</td> <td>Depth Completed 162 ft.</td> <td>Date Well Completed 04/26/1977</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Irrigation</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.</td> </tr> <tr> <td>Casing Diameter 12 in. to 132 ft.</td> <td>Weight lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type stainless steel</td> </tr> <tr> <td>Diameter 0</td> <td>Slot/Gauze 7</td> <td>Length 30</td> <td>Set Between 132 ft. and 162 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 25 ft. from Land surface Date Measured 04/26/1977</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 65 ft. after hrs. pumping 1000 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. 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County Well Index Online Report	131718	Printed 6/25/2008 HE-01205-07																																																																																																			

Minnesota Unique Well No.

139249

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/17/1988
 Update Date 08/21/1996
 Received Date

<p>Well Name WATSON, DORTHY Township Range Dir Section Subsections Elevation 1011 ft. 120 43 W 22 BDDDBB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 101 ft. Depth Completed 90 ft. Date Well Completed 05/10/1979 Drilling Method Non-specified Rotary</p>																																												
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td>SOFT</td> <td>0</td> <td>2</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>2</td> <td>21</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>MEDIUM</td> <td>21</td> <td>43</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>43</td> <td>90</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>90</td> <td>101</td> </tr> </tbody> </table>		Color	Hardness	From	To	TOP SOIL	BLACK	SOFT	0	2	SAND	BROWN	SOFT	2	21	CLAY	GRAY	MEDIUM	21	43	SAND	BROWN	MEDIUM	43	90	SAND	BROWN	MEDIUM	90	101	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Irrigation</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Casing Diameter</th> <th style="width:30%;">Weight</th> <th style="width:40%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>12 in. to 60 ft.</td> <td>lbs./ft.</td> <td>16 in. to 90 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Diameter</th> <th style="width:15%;">Slot/Gauze</th> <th style="width:15%;">Length</th> <th style="width:55%;">Set Between</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>70</td> <td>30</td> <td>60 ft. and 90 ft.</td> </tr> </tbody> </table> <p>Static Water Level 34 ft. from Land surface Date Measured 05/10/1979</p> <p>PUMPING LEVEL (below land surface) 59 ft. after hrs. pumping 900 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	12 in. to 60 ft.	lbs./ft.	16 in. to 90 ft.	Diameter	Slot/Gauze	Length	Set Between	12	70	30	60 ft. and 90 ft.
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<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">139249</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/25/2008 HE-01205-07</p>																																												

Minnesota Unique Well No.

222325

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/17/1988
 Update Date 12/10/1996
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name MN DNR OBWELL 76-021</p> <p>Township Range Dir Section Subsections Elevation 1000 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>120 43 W 23 BCBBA Elevation Method</p>	<p>Well Depth 172 ft. Depth Completed 165 ft. Date Well Completed 07/09/1979</p> <p>Drilling Method Non-specified Rotary</p>																																																																														
<p>Well Address</p> <p>APPLETON MN 56208</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>TOPSOIL</td><td>BLACK</td><td>SOFT</td><td>0</td><td>1</td></tr> <tr><td>SANDY CLAY</td><td>YELLOW</td><td>SOFT</td><td>1</td><td>10</td></tr> <tr><td>GRAVEL</td><td>BROWN</td><td>SOFT</td><td>10</td><td>20</td></tr> <tr><td>SAND MEDIUM-COARSE</td><td>BROWN</td><td>SOFT</td><td>20</td><td>28</td></tr> <tr><td>CLAY WITH GRAVEL</td><td>GRAY</td><td>SOFT</td><td>28</td><td>36</td></tr> <tr><td>SAND MEDIUM-COARSE</td><td>BROWN</td><td>SOFT</td><td>36</td><td>85</td></tr> <tr><td>GRAVEL</td><td>GRAY</td><td>SOFT</td><td>85</td><td>95</td></tr> <tr><td>COARSE SAND</td><td>GRAY</td><td>SOFT</td><td>95</td><td>110</td></tr> <tr><td>GRAVEL</td><td>GRAY</td><td>SOFT</td><td>110</td><td>145</td></tr> <tr><td>MEDIUM SAND</td><td>GRAY</td><td>SOFT</td><td>145</td><td>150</td></tr> <tr><td>COARSE SAND</td><td>GRAY</td><td>SOFT</td><td>150</td><td>160</td></tr> <tr><td>GRAVEL</td><td>GRAY</td><td>SOFT</td><td>160</td><td>172</td></tr> <tr><td>CLAY</td><td>BLU/GRY</td><td>SOFT</td><td>172</td><td>172</td></tr> </tbody> </table>	Material	Color	Hardness	From	To	TOPSOIL	BLACK	SOFT	0	1	SANDY CLAY	YELLOW	SOFT	1	10	GRAVEL	BROWN	SOFT	10	20	SAND MEDIUM-COARSE	BROWN	SOFT	20	28	CLAY WITH GRAVEL	GRAY	SOFT	28	36	SAND MEDIUM-COARSE	BROWN	SOFT	36	85	GRAVEL	GRAY	SOFT	85	95	COARSE SAND	GRAY	SOFT	95	110	GRAVEL	GRAY	SOFT	110	145	MEDIUM SAND	GRAY	SOFT	145	150	COARSE SAND	GRAY	SOFT	150	160	GRAVEL	GRAY	SOFT	160	172	CLAY	BLU/GRY	SOFT	172	172	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Observation well</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.</p> <p>Casing Diameter 2 in. to 161 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type plastic</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>15</td> <td>4</td> <td>161 ft. and 165 ft.</td> </tr> </tbody> </table> <p>Static Water Level 23.7 ft. from Land surface Date Measured 07/09/1979</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between	2	15	4	161 ft. and 165 ft.
	Material	Color	Hardness	From	To																																																																										
	TOPSOIL	BLACK	SOFT	0	1																																																																										
	SANDY CLAY	YELLOW	SOFT	1	10																																																																										
	GRAVEL	BROWN	SOFT	10	20																																																																										
	SAND MEDIUM-COARSE	BROWN	SOFT	20	28																																																																										
	CLAY WITH GRAVEL	GRAY	SOFT	28	36																																																																										
	SAND MEDIUM-COARSE	BROWN	SOFT	36	85																																																																										
	GRAVEL	GRAY	SOFT	85	95																																																																										
	COARSE SAND	GRAY	SOFT	95	110																																																																										
GRAVEL	GRAY	SOFT	110	145																																																																											
MEDIUM SAND	GRAY	SOFT	145	150																																																																											
COARSE SAND	GRAY	SOFT	150	160																																																																											
GRAVEL	GRAY	SOFT	160	172																																																																											
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Diameter	Slot/Gauze	Length	Set Between																																																																												
2	15	4	161 ft. and 165 ft.																																																																												
<p>REMARKS</p> <p>LOCATED BY DNR 376021, M.G.S. NO. 1518.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 262788 Y: 5008701</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																																														
	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																																														
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																																																														
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																																														
<p>Cuttings Yes</p> <p>First Bedrock Aquifer Quat. Buried Artes. Aquifer</p> <p>Last Strat Clay-gray Depth to Bedrock ft.</p>	<p>Well Contractor Certification Conroy Well Co. 75294 License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																														
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">222325</p> <p style="text-align: right;">Printed 6/25/2008 HE-01205-07</p>																																																																														

Minnesota Unique Well No.

223982

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
 Update Date 08/21/1996
 Received Date

Well Name MAYNARD, EARL Township Range Dir Section Subsections Elevation 120 43 W 15 DDBDCD Elevation Method 1012 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 60 ft.	Depth Completed 60 ft.	Date Well Completed 00/00/1962
Well Address APPLETON MN 56208		Drilling Method --		
Geological Material CLAY TILL SAND		Drilling Fluid --		
Color SAND		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Hardness SAND		Use Domestic		
From To 0 15 15 60		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
Weight 0 in. to 55 ft.		Casing Diameter		
Hole Diameter lbs./ft.		Open Hole from ft. to ft.		
Screen YES Make Type		Diameter		
Diameter		Slot/Gauze		
Length		Set Between		
Static Water Level 30 ft. from Land surface Date Measured 1962		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
REMARKS LOCATED BY POST OFFICE		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Unique Number Verification Other, note in remarks Date N/A		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 262463 Y: 5009357		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Aquifer Quat. Buried Unconf. Aquife Last Strat Sand Depth to Bedrock ft.		Well Contractor Certification United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		223982		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

432423

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 12/07/1990
 Update Date 07/10/1996
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name SARDNER GRAIN TRMNL</p> <p>Township Range Dir Section Subsections Elevation 1029 ft.</p> <p>120 43 W 23 BBDCDA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 108 ft. Depth Completed 108 ft. Date Well Completed 11/06/1986</p> <p>Drilling Method Non-specified Rotary</p>																																																	
<p>Well Address 119 HY APPLETON MN 56208</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td>HARD</td> <td>0</td> <td>2</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td>MEDIUM</td> <td>2</td> <td>17</td> </tr> <tr> <td>SAND</td> <td>YELLOW</td> <td>MEDIUM</td> <td>17</td> <td>24</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>HARD</td> <td>24</td> <td>57</td> </tr> <tr> <td>FINE SAND</td> <td>GRAY</td> <td></td> <td>57</td> <td>89</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>MEDIUM</td> <td>89</td> <td>108</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK	HARD	0	2	CLAY	YELLOW	MEDIUM	2	17	SAND	YELLOW	MEDIUM	17	24	CLAY	BLUE	HARD	24	57	FINE SAND	GRAY		57	89	SAND	GRAY	MEDIUM	89	108	<p>Drilling Fluid Bentonite</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>5 in. to 98 ft.</td> <td>lbs./ft.</td> <td>8 in. to 108 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make Type plastic</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>10</td> <td>10</td> <td>98 ft. and 108 ft.</td> </tr> </tbody> </table> <p>Static Water Level 32 ft. from Land surface Date Measured 11/06/1986</p> <p>PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 12 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer MERRILL Model SPK-5 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	5 in. to 98 ft.	lbs./ft.	8 in. to 108 ft.	Diameter	Slot/Gauze	Length	Set Between	5	10	10	98 ft. and 108 ft.
	Geological Material	Color	Hardness	From	To																																													
	TOP SOIL	BLACK	HARD	0	2																																													
	CLAY	YELLOW	MEDIUM	2	17																																													
	SAND	YELLOW	MEDIUM	17	24																																													
	CLAY	BLUE	HARD	24	57																																													
	FINE SAND	GRAY		57	89																																													
	SAND	GRAY	MEDIUM	89	108																																													
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Diameter	Slot/Gauze	Length	Set Between																																															
5	10	10	98 ft. and 108 ft.																																															
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters: X: 263006 Y: 5008729</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Cuttings from 20 to 95 ft. 1 yds.</p>																																																	
	<p>Nearest Known Source of Contamination 150 feet North West direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																	
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/06/1986 Manufacturer's name GOULDS Model number 10EJ05412 HP 0.5 Volts 220 Length of drop Pipe 70 ft. Capacity 70 g.p.m. Type Submersible Material Plastic</p>																																																	
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																	
	<p>Well Contractor Certification Jacobs & Grant Well 12073 GRANT, A. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																	
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>County Well Index Online Report 432423 Printed 6/25/2008 HE-01205-07</p>																																																	

Minnesota Unique Well No.

432431

County Swift
 Quad Appleton
 Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 12/07/1990
 Update Date 07/10/1996
 Received Date

Minnesota Statutes Chapter 1031

Well Name CARL, DENNIS		Well Depth 70 ft.	Depth Completed 70 ft.	Date Well Completed 07/18/1986	
Township Range Dir Section Subsections Elevation 120 43 W 15 DBBDAA Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary			
Well Address APPLETON MN 56208 Geological Material Color Hardness From To TOP SOIL BLACK HARD 0 2 CLAY YELLOW MEDIUM 2 8 DRY SAND YELLOW 8 25 CLAY BLUE HARD 25 48 SAND GRAY 48 70		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.			
		Casing Diameter	Weight	Hole Diameter	
		5 in. to 60 ft.	lbs./ft.	8 in. to 70 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make Type plastic			
		Diameter	Slot/Gauze	Length	Set Between
		5	15	10	60 ft. and 70 ft.
		Static Water Level 20 ft. from Land surface Date Measured 07/18/1986			
PUMPING LEVEL (below land surface) 35 ft. after hrs. pumping 10 g.p.m.					
Well Head Completion Pitless adapter manufacturer MERRILL Model SPK-5 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 262137 Y: 5009845		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Cuttings from 104 to 5 ft. 0.5 yds.			
		Nearest Known Source of Contamination 100 feet N direction Septic tank/drain field type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/18/1986 Manufacturer's name GOULD Model number 10EJ05412 HP 0.5 Volts 220 Length of drop Pipe 47 ft. Capacity 10 g.p.m. Type Submersible Material Plastic			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification Jacobs & Grant Well 12073 GRANT, A. License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		432431		Printed 6/25/2008 HE-01205-07	

SITE SUMMARY

Site Name: Babbitt

Fire Department: Babbitt Fire Department
71 South Drive
Babbitt, MN55706

Site Contact: Ryan Scharber, Fire Chief
218-827-2611
babbittfd@frontiernet.net

Training Location: 34 North Drive, Babbitt

Type of foam used in training: Ansulite (noted as training foam on questionnaire, however, Ansulite is an AFFF brand name)
Silv-ex Class A

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Ansulite AR-AFFF: up to 5 gallons
Ansulite training foam or AFFF: up to 5 gallons
Class A: 5 to 10 gallons

Nearest surface water: Unnamed pond approximately 1/3 mile east

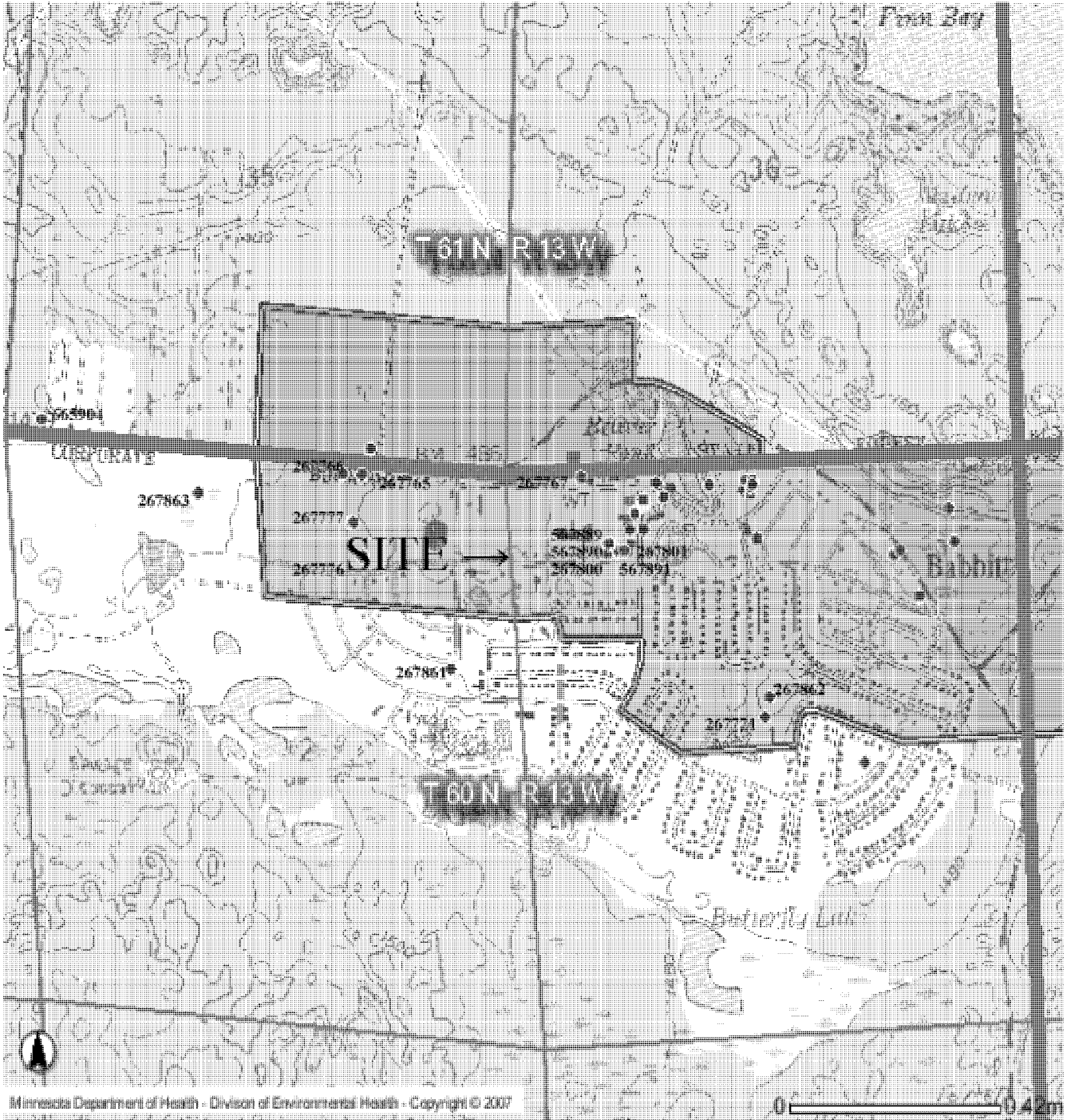
Nearest wetland: 1/4 to 1/2 mile south

Nearest water well: < 1/4 mile east

Nearest Wellhead Protection Area: Training site located within Wellhead Protection Area

SITE RANKING: 12

BABBITT CWI Well Map



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Babbitt What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

267765

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/25/2005
 Update Date 06/01/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name BABBITT MW-TH-2-99		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		178 ft.	178 ft.	06/17/1999
60	13 W 2 ABAA	Elevation Method 1476 ft. 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Exploration boring		
		Casing Type	Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		No Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
		Open Hole from ft. to ft.		
		Screen	Make	Type
		Diameter	Slot/Gauze	Length Set Between
		Static Water Level		
		ft. from Date Measured		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SEALED IN 1999 (H0155277) LOCATED IN FIELD		Grout Material: Bentonite from 2 to 178 ft. 9 bags		
Located Minnesota Department of Health		Method Digitization (Screen) - Map (1:12,000)		
Unique Number		Nearest Known Source of Contamination		
Verification Other, note in remarks		_feet _direction _type		
Date 06/01/2005		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters		Pump <input type="checkbox"/> Not Installed Date Installed		
X: 578367 Y: 5285100		Manufacturer's name Model number ___ HP ___ Volts		
		Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
		<input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock		L.t.p. Enterprises, Inc. 91686		
Last Strat		License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer				
Depth to Bedrock ft.				
County Well Index Online Report		267765		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

267766

County St. Louis
 Quad Babbitt
 Quad ID 317B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 05/25/2005
 Update Date 06/01/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name BABBITT MW-TH-3-99				Well Depth 190 ft.	Depth Completed 190 ft.	Date Well Completed 06/22/1999
Township Range Dir Section Subsections Elevation 60 13 W 2 ABAB				Elevation Method 1476 ft. 7.5 minute topographic map (+/- 5 feet)		
				Drilling Method --		
				Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
				Use Exploration boring		
				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.		
				Casing Diameter 4 in. to 145 ft.	Weight lbs./ft.	Hole Diameter
				Open Hole from ft. to ft.		
				Screen YES Make Type		
				Diameter	Slot/Gauze	Length Set Between 146 ft. and 172 ft.
				Static Water Level 12 ft. from No Information Date Measured 06/22/1999		
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Geological Material				Color	Hardness	From To
TOP SOIL				BLACK		0 1
SAND & GRAVEL				BROWN		1 20
FINE SAND				BROWN		20 119
SAND				BROWN		119 121
FINE SAND				DK. GRY		121 154
ROCK, SAND, & GRAVEL				VARIED		154 164
SAND & GRAVEL				VARIED		164 166
SAND & GRAVEL				VARIED		166 176
GRAVEL				VARIED		176 181
SAND & GRAVEL						181 186
LENSES OF SAND & GLAY				GRAY		186 188
ROCK				GREEN		188 190
REMARKS SEALED IN 1999 (H0155278) LOCATED IN FIELD ACCURACY GREATER THAN 25 FEET LOCATED ON MONITORING WELL MAP				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 2 to 190 ft. 10 bags		
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)				Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Other, note in remarks Date 06/01/2005				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 578308 Y: 5285102				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Well Contractor Certification L.t.p. Enterprises, Inc. 91686 License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock				Aquifer Quat. Water Table Aquifer		
Last Strat				Depth to Bedrock ft.		

County Well Index Online Report	267766	Printed 6/25/2008 HE-01205-07
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Minnesota Unique Well No.

267767

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 05/25/2005
 Update Date 05/25/2005
 Received Date

Well Name BABBITT MW-TH-4-99		Well Depth 196 ft.	Depth Completed 196 ft.	Date Well Completed 09/14/1999		
Township Range Dir Section Subsections Elevation 60 13 W 1 BBAB		Elevation Method 1476 ft. Calc from DEM (USGS 7.5 min or equiv.)				
Drilling Method --						
Well Address MN Geological Material TOP SOIL Color Hardness From To SAND & GRAVEL RED/BRN 1 5 SAND RED/BRN 5 15 VERY DIRTY SAND RED/BRN 15 35 FINE SILTY SAND DK. BRN 35 196 ROCK 196 196		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Exploration boring				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.				
		Casing Diameter		Weight	Hole Diameter	
		Open Hole from ft. to ft.				
		Screen		Make	Type	
		Diameter	Slot/Gauze	Length	Set Between	
		Static Water Level ft. from Date Measured				
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS SEALED IN 1999 (H0155279) LOCATED BY THE BIG TOWER		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 2 to 196 ft. 13 bags				
Located Minnesota Method Digitization (Screen) - Map (1:12,000)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Unique Number Verification Other, note in remarks Date 05/25/2005		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material				
System UTM - Nad83, Zone15, Meters X: 579062 Y: 5285092		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>				
Last Strat		Yes <input type="checkbox"/> No				
Aquifer						
Depth to Bedrock ft.						

	Well Contractor Certification L.t.p. Enterprises, Inc. 91686 License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	267767	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

267771

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/25/2005
 Update Date 06/27/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name BABBITT MW-TH-9-99		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		110 ft.	110 ft.	12/02/1999
60	13 W 1 BDDD	Elevation Method (USGS 7.5 min or equiv.)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Exploration boring		
		Casing Type Stainless Steel	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes
		<input type="checkbox"/> No Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
		4 in. to 83 ft.	lbs./ft.	
		Open Hole from ft. to ft.		
		Screen YES Make Type		
		Diameter	Slot/Gauze	Length Set Between
			24	83 ft. and 107 ft.
		Static Water Level		
		23 ft. from Top of casing above LSD Date Measured 12/02/1999		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SEALED IN 1999 (H0157344)		Grout Material: Bentonite from 0 to 100 ft. 9 bags		
LOCATED BEHIND EMANUELSON; SOUTHEAST OF REC. RINK		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number ___ HP Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
		<input type="checkbox"/> No		
		Well Contractor Certification		
		L.t.p. Enterprises, Inc. 91686		
		License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock				
Last Strat				
Aquifer Quat. Water Table Aquifer				
Depth to Bedrock ft.				
County Well Index Online Report		267771		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

267776

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/01/2005
 Update Date 06/01/2005
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name BABBITT MW-SB-1-99</p> <p>Township Range Dir Section Subsections Elevation 1473 ft.</p> <p>60 13 W 2 ABDA Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 103 ft. Depth Completed 103 ft. Date Well Completed 12/29/1998</p> <p>Drilling Method Mud Rotary</p>																																													
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>MEDIUM TO FINE ARKOSIC SAND</td> <td></td> <td></td> <td>0</td> <td>20</td> </tr> <tr> <td>WELL SORTED FINE ARKOSIC SAND</td> <td></td> <td></td> <td>20</td> <td>40</td> </tr> <tr> <td>VERY FINE SAND AND SILT</td> <td></td> <td></td> <td>40</td> <td>98</td> </tr> <tr> <td>BEDROCK</td> <td></td> <td></td> <td>98</td> <td>103</td> </tr> </tbody> </table>		Color	Hardness	From	To	MEDIUM TO FINE ARKOSIC SAND			0	20	WELL SORTED FINE ARKOSIC SAND			20	40	VERY FINE SAND AND SILT			40	98	BEDROCK			98	103	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Exploration boring</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Casing Diameter</th> <th style="width:33%;">Weight</th> <th style="width:33%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Screen</th> <th style="width:20%;">Make</th> <th style="width:20%;">Type</th> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:20%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level 13.3 ft. from Land surface Date Measured 12/29/1998</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter				Screen	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
		Color	Hardness	From	To																																									
	MEDIUM TO FINE ARKOSIC SAND			0	20																																									
	WELL SORTED FINE ARKOSIC SAND			20	40																																									
	VERY FINE SAND AND SILT			40	98																																									
	BEDROCK			98	103																																									
	Casing Diameter	Weight	Hole Diameter																																											
	Screen	Make	Type	Diameter	Slot/Gauze	Length	Set Between																																							
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)</p> <p>Unique Number Date 06/01/2005</p> <p>Verification Other, note in remarks Date 06/01/2005</p> <p>System UTM - Nad83, Zone15, Meters X: 578369 Y: 5284874</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																													
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Well Contractor Certification <u>Sts Consultants Ltd</u> <u>M0017</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																												
	<p>First Bedrock Aquifer Last Strat Depth to Bedrock 98 ft.</p>	<p>County Well Index Online Report</p>																																												
	<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">267776</p> <p style="text-align: right;">Printed 6/25/2008 IIE-01205-07</p>																																												

Minnesota Unique Well No.

267777

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/01/2005
 Update Date 06/01/2005
 Received Date

Well Name BABBITT MW-SB-2-99		Well Depth 180 ft.	Depth Completed 180 ft.	Date Well Completed 01/11/1999		
Township Range 60	Dir Section 13 W 2	Subsections ABAC	Elevation 1473 ft.	Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		
Geological Material MEDIUM TO FINE ARKOSIC SAND WELL SORTED FINE ARKOSIC SAND WELL SORTED VERY FINE ARKOSIC SAND VERY FINE SAND AND SILT INTERBEDDED SILTY SAND AND GRAVEL GRANITE BEDROCK		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Exploration boring				
		Casing Type Joint		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
		Casing Diameter		Weight	Hole Diameter	
		Open Hole from ft. to ft.				
		Screen Make		Type		
		Diameter	Slot/Gauze	Length	Set Between	
		Color	Hardness	From	To	
		0		0	20	
		20		20	40	
40		40	60			
60		60	150			
150		150	177			
177		177	180			
Static Water Level		14.6 ft. from Land surface Date Measured 01/11/1999				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.						
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
NO REMARKS Located Minnesota Department of Health Unique Number Verification Other, note in remarks System UTM - Nad83, Zone15, Meters Method Digitization (Screen) - Map (1:12,000) Date 06/01/2005 X: 578341 Y: 5284967		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Last Strat Aquifer Depth to Bedrock 177 ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Well Contractor Certification Sts Consultants Ltd M0017 License Business Name Lic. Or Reg. No. Name of Driller				
		County Well Index Online Report				
		267777		Printed 6/25/2008 HE-01205-07		

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 06/14/2005
Update Date 06/14/2005
Received Date

Minnesota Unique Well No.

267800

County St. Louis
Quad Babbitt
Quad ID 317B

*Minnesota Statutes Chapter
1031*

Well Name BABBITT MW-4A		Well Depth 70 ft.	Depth Completed 70 ft.	Date Well Completed	
Township Range Dir Section Subsections Elevation 60 13 W 1 BBDABB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method --			
Geological Material Color Hardness From To		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Monitor well			
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.			
		Casing Diameter	Weight	Hole Diameter	
		Open Hole from ft. to ft.			
		Screen	Make	Type	
		Diameter	Slot/Gauze	Length	Set Between
		Static Water Level 31.4 ft. from No Information Date Measured 01/31/1997			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Unique Number Verification Other, note in remarks System UTM - Nad83, Zone15, Meters</p> <p>Method Digitization (Screen) - Map (1:12,000) Date 06/14/2005 X: 579149 Y: 5284908</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Nova Environmental Services, Inc.</u>	<u>M0139</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report	267800		Printed 6/25/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 06/14/2005
Update Date 06/14/2005
Received Date

Minnesota Unique Well No.

267801

County St. Louis
Quad Babbitt
Quad ID 317B

*Minnesota Statutes Chapter
1031*

Well Name BABBITT MW-5		Well Depth 22.5 ft.	Depth Completed 22.5 ft.	Date Well Completed		
Township Range Dir Section Subsections Elevation		1476 ft.				
60	13 W 1	BBDAAB	Elevation Method Calc from DEM (USGS 7.5 min or equiv.)			
Geological Material Color Hardness From To		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--		From Ft. to Ft.		
		Use Monitor well				
		Casing Type		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below ft.				
		Casing Diameter		Weight	Hole Diameter	
		Open Hole from ft. to ft.				
		Screen		Make	Type	
		Diameter	Slot/Gauze	Length	Set Between	
		Static Water Level 18.5 ft. from No Information Date Measured 01/31/1997				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.						
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
NO REMARKS Located Minnesota Department of Health Unique Number Verification Other, note in remarks System UTM - Nad83, Zone15, Meters		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material				
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>				
		Yes <input type="checkbox"/> No				

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Nova Environmental Services, Inc.</u>	<u>M0139</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		267801	Printed 6/25/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Minnesota Unique Well No.

267861

County St. Louis
Quad Babbitt
Quad ID 317B

*Minnesota Statutes Chapter
1031*

Well Name GEORGE SENHOUSER				Well Depth _____ ft.		Depth Completed _____ ft.		Date Well Completed _____				
Township Range Dir Section Subsections Elevation 60 13 W 2 ADBDDA Elevation Method Surveyed				1480 ft.								
				Drilling Method Sand Point								
				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.						
				Use								
				Casing Type Joint		No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No				
				No Above/Below _____ ft.								
				Casing Diameter		Weight		Hole Diameter				
				Open Hole from _____ ft. to _____ ft.								
				Screen		Make		Type				
				Diameter		Slot/Gauze		Length		Set Between		
				Geological Material		Color		Hardness		From		To
Static Water Level 7.6 ft. from No Information				Date Measured 08/11/1997								
PUMPING LEVEL (below land surface) _____ ft. after _____ hrs. pumping _____ g.p.m.												
Well Head Completion Pitless adapter manufacturer _____ Model _____				<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade								
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)								
REMARKS LOCATION PROVIDED BY NORTHEAST TECHNICAL SERVICES IN AUGUST, 1997 REPORT				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No								
Located Minnesota Department of Health		Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination ____feet ____direction ____type								
Unique Number		Date 08/05/2005		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No								
Verification Other, note in remarks				Pump <input type="checkbox"/> Not Installed Date Installed _____								
System UTM - Nad83, Zone15, Meters		X: 578650 Y: 5284559		Manufacturer's name _____ Model number _____ HP _____ Volts _____		Length of drop Pipe _____ft. Capacity _____g.p.m. Type _____ Material _____						
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No								
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No								
First Bedrock				Well Contractor Certification								
Last Strat				Aquifer		License Business Name _____ Lic. Or Reg. No. _____ Name of Driller _____						
				Depth to Bedrock _____ ft.								

County Well Index Online Report	267861	Printed 6/25/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Minnesota Unique Well No.

267862

County St. Louis
Quad Babbitt
Quad ID 317B

*Minnesota Statutes Chapter
1031*

Well Name BABBITT SKATING RINK				Well Depth	Depth Completed	Date Well Completed			
Township Range Dir Section Subsections Elevation 1489 ft.				ft.	ft.				
60	13	W	1	BDDADA	Elevation Method Surveyed	Drilling Method --			
Geological Material Color Hardness From To				Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				--		From Fl. to Fl.			
				Use					
				Casing Type		Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				No Above/Below		ft.			
				Casing Diameter		Weight	Hole Diameter		
				Open Hole from ft. to ft.					
				Screen		Make	Type		
				Diameter	Slot/Gauze	Length	Set Between		
				Static Water Level					
20.7 ft. from No Information Date Measured 07/17/1997									
PUMPING LEVEL (below land surface)									
ft. after hrs. pumping g.p.m.									
Well Head Completion									
Pitless adapter manufacturer Model									
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade							
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)									
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Method Digitization (Screen) - Map Department of Health (1:24,000)</p> <p>Unique Number</p> <p>Verification Other, note in Date 08/05/2005 remarks</p> <p>System UTM - Nad83, Zone15, X: 579659 Y: 5284482 Meters</p>				Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Nearest Known Source of Contamination					
				_feet		_direction	_type		
				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Pump <input type="checkbox"/> Not Installed Date Installed									
Manufacturer's name		Model number	__ HP	Volts					
Length of drop Pipe		_ft.	Capacity	_g.p.m	Type Material				
Abandoned Wells Does property have any not in use and not sealed well									
(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No									
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>									
Yes <input type="checkbox"/> No									
Well Contractor Certification									
First Bedrock		Aquifer							
Last Strat		Depth to Bedrock	ft.						
		License Business Name	Lic. Or Reg. No.	Name of Driller					

County Well Index Online Report	267862	Printed 6/25/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Minnesota Unique Well No.

267863

County St. Louis
Quad Babbitt
Quad ID 317B

*Minnesota Statutes Chapter
1031*

Well Name BABBITT SOFTBALL FIELD				Well Depth	Depth Completed	Date Well Completed			
Township Range Dir Section Subsections Elevation 1482 ft.				ft.	ft.				
60	13	W	2	BAACBB	Elevation Method Surveyed	Drilling Method --			
Geological Material Color Hardness From To				Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				--		From Fl. to Fl.			
				Use					
				Casing Type		Joint	No Information	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
				No Above/Below		ft.			
				Casing Diameter		Weight	Hole Diameter		
				Open Hole from ft. to ft.					
				Screen		Make	Type		
				Diameter	Slot/Gauze	Length	Set Between		
				Static Water Level					
10.4 ft. from No Information Date Measured 07/17/1997									
PUMPING LEVEL (below land surface)									
ft. after hrs. pumping g.p.m.									
Well Head Completion									
Pitless adapter manufacturer Model									
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade									
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)									
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Method Digitization (Screen) - Map Department of Health (1:24,000)</p> <p>Unique Number</p> <p>Verification Other, note in Date 08/05/2005 remarks</p> <p>System UTM - Nad83, Zone15, X: 577850 Y: 5285049 Meters</p>				Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Nearest Known Source of Contamination					
				_feet _direction _type					
				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Pump <input type="checkbox"/> Not Installed Date Installed					
Manufacturer's name Model number HP Volts									
Length of drop Pipe _ft. Capacity _g.p.m Type Material									
Abandoned Wells Does property have any not in use and not sealed well									
(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No									
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>									
Yes <input type="checkbox"/> No									
Well Contractor Certification									
License Business Name Lic. Or Reg. No. Name of Driller									
First Bedrock		Aquifer							
Last Strat		Depth to Bedrock ft.							

County Well Index Online Report	267863	Printed 6/25/2008 HE-01205-07
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Minnesota Unique Well No.

567889

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/24/2005
 Update Date 04/17/2008
 Received Date 05/30/1996

Well Name BABBITT MW-1 Township Range Dir Section Subsections Elevation 1476 ft. 60 13 W 1 BBDA Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 21 ft. Depth Completed 21 ft. Date Well Completed 05/22/1996
		Drilling Method Hand Auger
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Monitor well
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.
		Casing Diameter 2 in. to ft. Weight lbs./ft. Hole Diameter 2.25 in. to 21 ft.
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type plastic
		Diameter Slot/Gauze Length 10 Set Between 11 ft. and 21 ft.
Well Address MN		
Geological Material SAND FINE TO MEDIUM WG FINE GRAINED SAND		Color TAN Hardness MEDIUM From 5 To 12 MEDIUM 12 21
		Static Water Level 17.9 ft. from No Information Date Measured 06/25/1996
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS MW 1 FOR CITY OF BABBITT ENVIRONMENTAL TROUBLESHOOTERS, INC: SB-1		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: CONCRETE from 0 to 2 ft. 2 bags Grout Material: Neal Cement from 2 to 8 ft. 2 bags Grout Material: Bentonite from 8 to 10 ft. 1 bags
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)		Nearest Known Source of Contamination 40 feet S direction Other type
Unique Number Verification Other, note in remarks Date 05/27/2005		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
System UTM - Nad83, Zone15, Meters X: 579161 Y: 5284890		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Earth Burners, Inc. M0142 PAUL KILPELA License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Unknown deposit type		
Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		
County Well Index Online Report		567889 Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

567890

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/24/2005
 Update Date 04/17/2008
 Received Date 05/22/1996

Well Name BABBITT MW-2 Township Range Dir Section Subsections Elevation 1479 ft. 60 13 W 1 BBDB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 20.6 ft. Depth Completed 20.6 ft. Date Well Completed 05/22/1996
		Drilling Method Hand Auger
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Monitor well
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.
		Casing Diameter 2 in. to 20 ft. Weight lbs./ft. Hole Diameter 8.25 in. to 20 ft.
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type plastic
		Diameter Slot/Gauze Length 10 Set Between 10 ft. and 20 ft.
Geological Material SAND MEDIUM TO FINE SAND VERY COARSE	Color ORN/BRN BROWN	Hardness MEDIUM MEDIUM
	From 4 10	To 10 20
		Static Water Level 16.8 ft. from No Information Date Measured 06/25/1990
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS MW - 2 FOR CITY OF BABBITT ENVIRONMENTAL TROUBLESHOOTERS, INC: SB-3 Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000) Unique Number Verification Other, note in remarks Date 05/27/2005 System UTM - Nad83, Zone15, Meters X: 579145 Y: 5284882		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Well known to be not grouted from 2 to 5 ft. 2 bags Grout Material: Bentonite from 5 to 7 ft. 1 bags Grout Material: CONCRETE from to 2 ft. 2 bags
		Nearest Known Source of Contamination 15 feet E direction Other type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Earth Burners, Inc. M0142 PAUL KILPELA License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Unknown deposit type		Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.
County Well Index Online Report		567890 Printed 6/25/2008 IIE-01205-07

Minnesota Unique Well No.

665904

County St. Louis
 Quad Babbitt
 Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/08/2002
 Update Date 03/11/2005
 Received Date

Well Name BUROW, GARY Township Range Dir Section Subsections Elevation 1476 ft. 61 13 W 35 CCDCB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 30 ft. Depth Completed 30 ft. Date Well Completed 07/17/2001 Drilling Method Multiple methods used
Well Address 2681 70 HY BABBITT MN 55706		Drilling Fluid Water Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft. Use Domestic
Geological Material SAND GRAVEL		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft. Casing Diameter 6 in. to 30 ft. Weight 20 lbs./ft. Hole Diameter 6 in. to 30 ft. Open Hole from ft. to ft. Screen YES Make Type stainless steel Diameter 4 Slot/Gauze 10 Length 4 Set Between 27 ft. and 30 ft.
Color BROWN Hardness BROWN From 0 To 27 From 27 To 30		Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS DRILLING METHOD: AIR/DRIVEN/ROTARY. CASING: T/W. Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 05/21/2004 System UTM - Nad83, Zone15, Meters X: 577352 Y: 5285254		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Well grouted, type unknown from to ft. Nearest Known Source of Contamination 140 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed 08/08/2001 Manufacturer's name AFERMOTOR Model number 10-50 HP 0.5 Volts 230 Length of drop Pipe 18 ft. Capacity 10 g.p.m Type Submersible Material
First Bedrock Last Strat Gravel (+larger)-brown Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Contractor Certification Kolstad-olson 69554 MAJESKI, T. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		665904 Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

567891

County St. Louis
 Quad Babbitt
 Quad ID 317B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 05/24/2005
 Update Date 06/14/2005
 Received Date 05/22/1996

Minnesota Statutes Chapter 1031

Well Name BABBITT MW-3				Well Depth 21 ft.		Depth Completed 21 ft.		Date Well Completed 05/22/1996																					
Township Range Dir Section Subsections Elevation 60 13 W 1 BBDA				Elevation 1476 ft. Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Hand Auger																							
<table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SANDY GRAVEL</td> <td>BROWN</td> <td>MEDIUM</td> <td>4</td> <td>10</td> </tr> <tr> <td>GRAVEL</td> <td>LT. BRN</td> <td>MEDIUM</td> <td>10</td> <td>15</td> </tr> <tr> <td>SAND, FINE GRAINED</td> <td>BROWN</td> <td>MEDIUM</td> <td>15</td> <td>21</td> </tr> </table>				Geological Material	Color	Hardness	From	To	SANDY GRAVEL	BROWN	MEDIUM	4	10	GRAVEL	LT. BRN	MEDIUM	10	15	SAND, FINE GRAINED	BROWN	MEDIUM	15	21	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Geological Material	Color	Hardness	From	To																					
				SANDY GRAVEL	BROWN	MEDIUM	4	10																					
				GRAVEL	LT. BRN	MEDIUM	10	15																					
				SAND, FINE GRAINED	BROWN	MEDIUM	15	21																					
				Use Monitor well																									
				Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																									
				Casing Diameter		Weight		Hole Diameter																					
				2 in. to 21 ft.		lbs./ft.		8.25 in. to 21 ft.																					
				Open Hole from ft. to ft.																									
Screen YES Make JOHNSON Type plastic																													
Diameter		Slot/Gauze		Length		Set Between																							
2		10		10		11 ft. and 21 ft.																							
Static Water Level 17.7 ft. from No Information Date Measured 06/25/1996																													
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																													
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																													
REMARKS MW-3 FOR CITY OF BABBITT ENVIRONMENTAL TROUBLESHOOTERS, INC.: SB-4				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)				Grout Material: Well known to be not grouted from 2 to 8 ft. 2 bags Grout Material: Bentonite from 8 to 10 ft. 1 bags Grout Material: CONCRETE from to 2 ft. 2 bags																									
Unique Number Verification Other, note in remarks Date 05/27/2005				Nearest Known Source of Contamination 20 feet South West direction Other type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
System UTM - Nad83, Zone15, Meters X: 579180 Y: 5284888				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material																									
First Bedrock Last Strat				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
				Variance Was a variance granted from the MDH for this well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
				Well Contractor Certification <u>Earth Burners, Inc.</u> <u>M0142</u> <u>PAUL KILPELA</u> License Business Name Lic. Or Reg. No. Name of Driller																									
Aquifer Quat. Water Table Aquifer				Depth to Bedrock ft.																									

County Well Index Online Report	567891	Printed 6/25/2008 HE-01205-07
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SITE SUMMARY

Site Name: Bemidji Airport Training Site

Fire Department: Bemidji Fire Department
5th Street & America Avenue
Bemidji, MN 56601

Site Contact: Dick Sathers, Fire Chief
218-751-8001

Training Location: Class B foam training at Bemidji Airport
(Class A foam training is used at the Railroad Street site)

Type of foam used in training: 3M Light Water AFFF
Silv-ex Class A

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AFFF: approximately 5 gallons
Class A : 15 gallons

Nearest surface water: Eckles Lake located approximately 1/4 mile southwest

Nearest wetland: Adjacent north of the air field and approximately 1/4 mile southwest

Nearest water well: on-site at airport

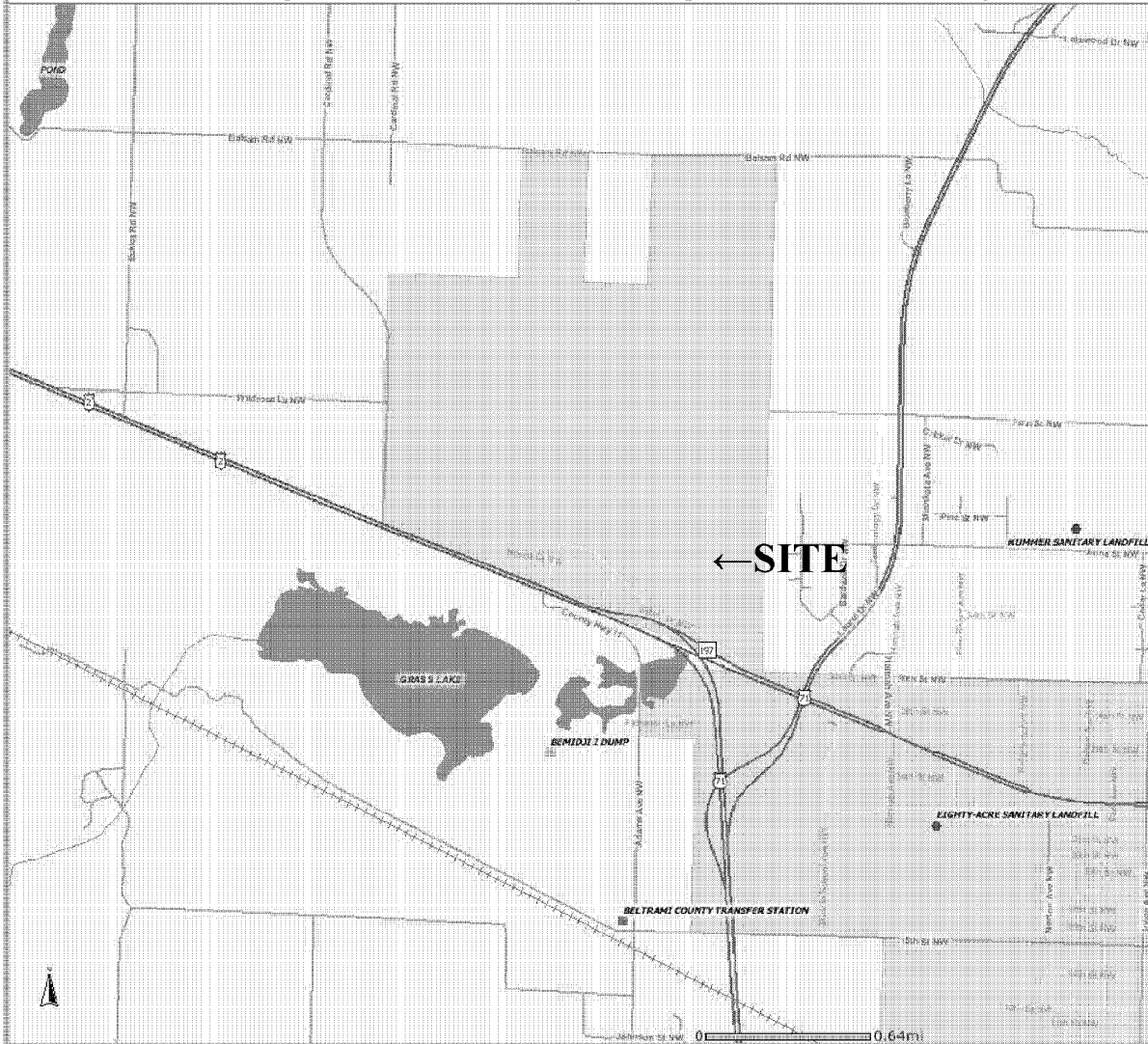
Nearest Wellhead Protection Area: Class B training site located within Wellhead Protection Area

SITE RANKING: 26

BEMIDJI AIRPORT CWI Well Map



Bemidji What's In My Neighborhood Map

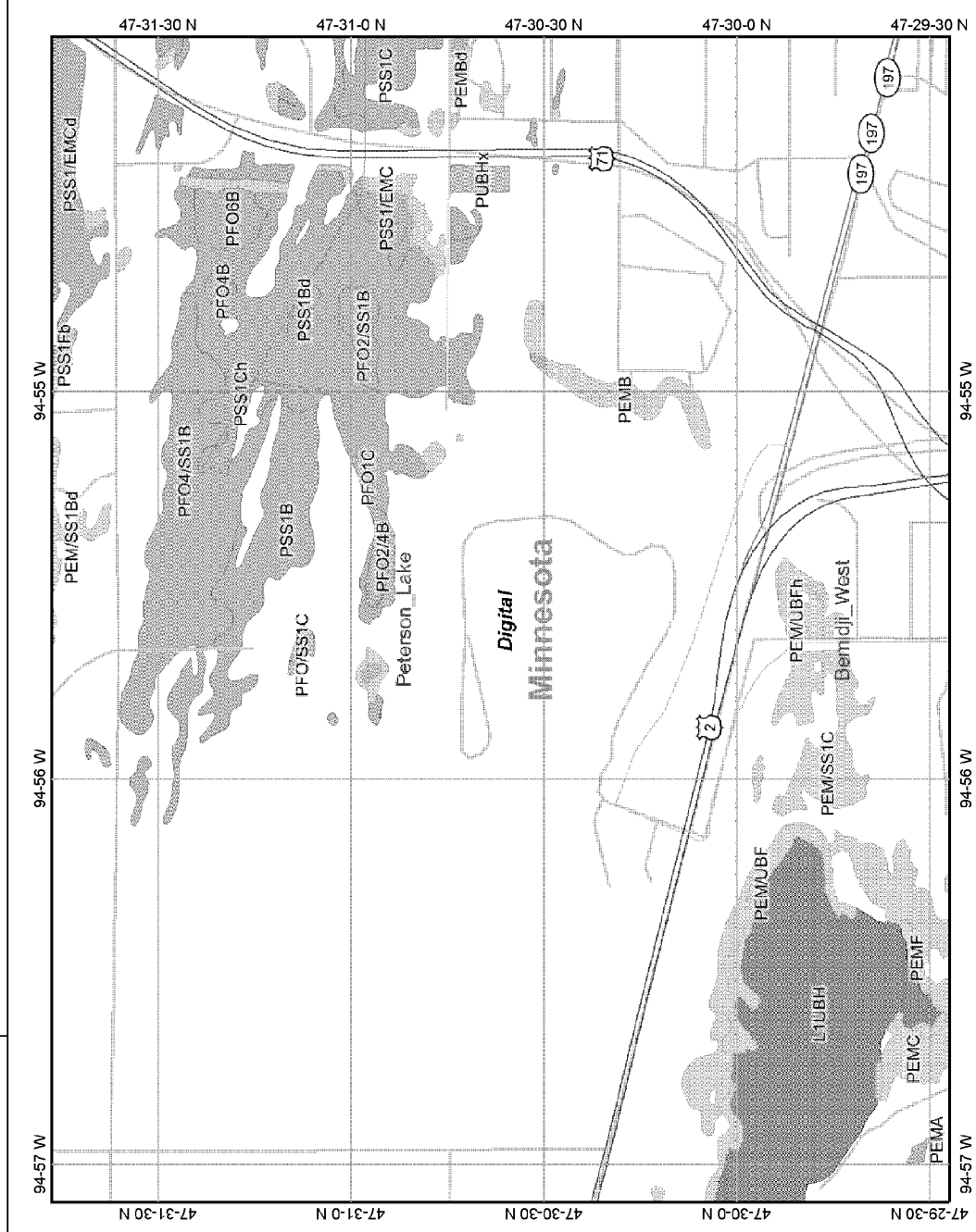


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

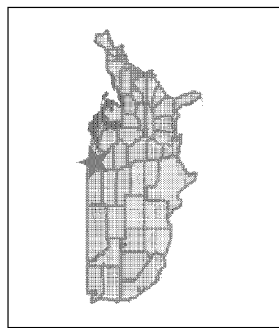
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Bemidji Airport



Map center: 47° 30' 37" N, 94° 55' 35" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:30,142

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

243337

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/25/2002
 Update Date 07/25/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name CITY OF BEMIDJI		Well Depth 79 ft.	Depth Completed ft.	Date Well Completed 05/13/1986																																																		
Township Range Dir Section Subsections Elevation 147 33 W 30 CCCCCD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Power Auger																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>FILL - SANDY, MEDIUM</td><td>BLACK</td><td></td><td>0</td><td>2</td></tr> <tr><td>SAND MEDIUM</td><td>RED/BRN</td><td></td><td>2</td><td>5</td></tr> <tr><td>SAND MED -- COARSE SILTY</td><td>DK. BRN</td><td></td><td>5</td><td>10</td></tr> <tr><td>SAND, COARSE, CLEAN, SILTY</td><td>BROWN</td><td></td><td>10</td><td>20</td></tr> <tr><td>SAND, VC, CLEAN W/ GRAVEL</td><td>BROWN</td><td></td><td>20</td><td>30</td></tr> <tr><td>SAND, C, SILTY</td><td>GRY/BRN</td><td></td><td>30</td><td>45</td></tr> <tr><td>SAND, MED, SILTY</td><td>GRAY</td><td></td><td>45</td><td>50</td></tr> <tr><td>SAND, CLAYEY MEDIUM</td><td>GRAY</td><td></td><td>50</td><td>60</td></tr> <tr><td>SAND, COARSE</td><td>GRY/BRN</td><td></td><td>60</td><td>79</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	FILL - SANDY, MEDIUM	BLACK		0	2	SAND MEDIUM	RED/BRN		2	5	SAND MED -- COARSE SILTY	DK. BRN		5	10	SAND, COARSE, CLEAN, SILTY	BROWN		10	20	SAND, VC, CLEAN W/ GRAVEL	BROWN		20	30	SAND, C, SILTY	GRY/BRN		30	45	SAND, MED, SILTY	GRAY		45	50	SAND, CLAYEY MEDIUM	GRAY		50	60	SAND, COARSE	GRY/BRN		60	79	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																																
		FILL - SANDY, MEDIUM	BLACK		0	2																																																
		SAND MEDIUM	RED/BRN		2	5																																																
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		SAND, MED, SILTY	GRAY		45	50																																																
		SAND, CLAYEY MEDIUM	GRAY		50	60																																																
SAND, COARSE	GRY/BRN		60	79																																																		
Use Test well		Casing Type Galvanized Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																				
		Casing Diameter	Weight	Hole Diameter																																																		
		Open Hole from ft. to ft.																																																				
		Screen YES	Make BK- SLOTTED	Type plastic																																																		
		Diameter	Slot/Gauze	Length Set Between																																																		
		2	10	2 ft. and ft.																																																		
		Static Water Level 12.4 ft. from No Information Date Measured 05/13/1986																																																				
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																				
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																				
<p style="text-align:center">NO REMARKS</p> <p>Located United States Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Date 03/18/2003</p> <p>Verification Information from owner Date 03/18/2003</p> <p>System UTM - Nad83, Zone15, Meters X: 354879 Y: 5263907</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Nearest Known Source of Contamination _feet _direction _type																																																				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																																																				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Well Contractor Certification United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller																																																				
		First Bedrock		Aquifer																																																		
		Last Strat		Depth to Bedrock ft.																																																		
		County Well Index Online Report		243337		Printed 6/25/2008 HE-01205-07																																																

Minnesota Unique Well No.

243344

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 07/25/2002
 Update Date 03/18/2003
 Received Date

Minnesota Statutes Chapter 103I

Well Name CITY OF BEMIDJI		Well Depth 27 ft.	Depth Completed 27 ft.	Date Well Completed 05/13/1986
Township Range Dir Section Subsections Elevation 147 33 W 32 CBBBBB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Power Auger		
Geological Material SAND, MED- CRS, CLEAN SAND, CRS, CLEAN Color RED/BRN BROWN Hardness From To 0 15 15 27		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Test well		
		Casing Type Galvanized Joint Unknown Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1.5 ft.		
		Casing Diameter 2 in. to 22 ft. Weight lbs./ft. Hole Diameter		
		Open Hole from ft. to ft.		
		Screen YES Make BK Type plastic		
		Diameter 2 Slot/Gauze 10 Length 2 Set Between ft. and ft.		
		Static Water Level 12 ft. from No Information Date Measured 05/13/1986		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 12 ft. Grout Material: Bentonite from to ft.		
Located United States Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 356479 Y: 5263037		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Last Strat Aquifer Depth to Bedrock ft.		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ IIP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
County Well Index Online Report		Well Contractor Certification United States Geological Survey <u>USGS</u> License Business Name Lic. Or Reg. No. Name of Driller		
		243344		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

243345

County Beltrami
 Quad Bemidji West
 Quad ID 302B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/25/2002
 Update Date 07/25/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name				Well Depth	Depth Completed	Date Well Completed																																																			
Township Range Dir Section Subsections Elevation				37 ft.	14 ft.	05/14/1986																																																			
147	33	W	32	CCCCDD	Elevation Method	7.5 minute topographic map (+/- 5 feet)																																																			
<table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>TOP SOIL, SAND</td> <td>DARK</td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>SAND, CLEAN, CRS</td> <td>DK. BRN</td> <td></td> <td>2</td> <td>5</td> </tr> <tr> <td>SAND, CLEAN, CRS</td> <td>DK. BRN</td> <td></td> <td>5</td> <td>10</td> </tr> <tr> <td>SAND CLAY CRS</td> <td>DK. BRN</td> <td></td> <td>10</td> <td>15</td> </tr> <tr> <td>SAND, V.CRS CLEAN</td> <td>DK. BRN</td> <td></td> <td>15</td> <td>20</td> </tr> <tr> <td>SAND, V.CRS CLEAN</td> <td>DK. BRN</td> <td></td> <td>20</td> <td>25</td> </tr> <tr> <td>SAND, SILTY W CLAY</td> <td>BROWN</td> <td></td> <td>25</td> <td>30</td> </tr> <tr> <td>SAND, C. CRS. CLEAN</td> <td>BROWN</td> <td></td> <td>30</td> <td>35</td> </tr> <tr> <td>SAND, CLAYEY, SILTY</td> <td>BROWN</td> <td></td> <td>35</td> <td>37</td> </tr> </table>				Geological Material	Color	Hardness	From	To	TOP SOIL, SAND	DARK		0	2	SAND, CLEAN, CRS	DK. BRN		2	5	SAND, CLEAN, CRS	DK. BRN		5	10	SAND CLAY CRS	DK. BRN		10	15	SAND, V.CRS CLEAN	DK. BRN		15	20	SAND, V.CRS CLEAN	DK. BRN		20	25	SAND, SILTY W CLAY	BROWN		25	30	SAND, C. CRS. CLEAN	BROWN		30	35	SAND, CLAYEY, SILTY	BROWN		35	37	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Geological Material	Color	Hardness	From	To																																																	
				TOP SOIL, SAND	DARK		0	2																																																	
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SAND, CLAYEY, SILTY	BROWN		35	37																																																					
				--	From Ft. to Ft.																																																				
				Use	Test well																																																				
				Casing Type	Galvanized	Joint	Unknown																																																		
				Drive Shoe?	<input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
				Casing Diameter	2 in. to 12.4 ft.	Weight	lbs./ft.																																																		
				Hole Diameter	5.3 in. to 37 ft.																																																				
				Open Hole	from ft. to ft.																																																				
				Screen YES	Make BK	Type plastic																																																			
				Diameter	Slot/Gauze	Length	Set Between																																																		
					10	12.4 ft. and 14.4 ft.																																																			
				Static Water Level	ft. from Date Measured																																																				
				PUMPING LEVEL (below land surface)	ft. after hrs. pumping g.p.m.																																																				
				Well Head Completion	Pitless adapter manufacturer Model																																																				
				<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade																																																				
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																					
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located United States Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 356492 Y: 5262257</p>				Grouting Information	Well Grouted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																			
								Grout Material: Bentonite	from 0 to 12.4 ft.	2																																															
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								Pump	<input type="checkbox"/> Not Installed Date Installed																																																
				Manufacturer's name	Model number	HP	Volts																																																		
				Length of drop Pipe	ft.	Capacity	g.p.m.																																																		
				Type	Material																																																				
				Abandoned Wells	Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																				
				Variance	Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
				Well Contractor Certification	United States Geological Survey USGS STARK																																																				
				License Business Name	Lic. Or Reg. No.	Name of Driller																																																			
First Bedrock	Aquifer																																																								
Last Strat	Depth to Bedrock			ft.																																																					

County Well Index Online Report	243345	Printed 6/25/2008 HE-01205-07
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Minnesota Unique Well No.

547514

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 01/08/1999
 Update Date 06/15/2005
 Received Date

Well Name BEMIDJI 1A Township Range Dir Section Subsections Elevation 1380 ft. 147 33 W 31 DAA Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 163 ft. Depth Completed 161 ft. Date Well Completed 09/02/1994 Drilling Method Cable Tool																																																																																																																								
Well Address BEMIDJI MN 56601		Drilling Fluid Water Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																																																																																																								
Geological Material		Use Abandoned Status Sealed																																																																																																																								
<table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL & FILL</td><td></td><td>0</td><td>3</td></tr> <tr><td>FINE SAND</td><td>BROWN</td><td>3</td><td>8</td></tr> <tr><td>SAND & GRAVEL</td><td>BROWN</td><td>8</td><td>17</td></tr> <tr><td>SAND</td><td>LT. BRN</td><td>17</td><td>29</td></tr> <tr><td>SANDY CLAY & GRAVEL MIX</td><td>LT. BRN</td><td>29</td><td>42</td></tr> <tr><td>SANDY CLAY & COARSE GRAVEL MIX</td><td>GRAY</td><td>42</td><td>47</td></tr> <tr><td>SAND & GRAVEL WITHIN SANDY CLAY</td><td>GRAY</td><td>47</td><td>57</td></tr> <tr><td>SANDY CLAY & SAND & GRAVEL</td><td>BROWN</td><td>57</td><td>60</td></tr> <tr><td>SAND & GRAVEL</td><td>BROWN</td><td>60</td><td>65</td></tr> <tr><td>VERY COARSE GRAVEL & COBBLES</td><td>BROWN</td><td>65</td><td>79</td></tr> <tr><td>COARSE GRAVEL (DIRTY)</td><td>BROWN</td><td>79</td><td>92</td></tr> <tr><td>COARSE SAND & GRAVEL</td><td>BROWN</td><td>92</td><td>97</td></tr> <tr><td>SAND</td><td>BROWN MEDIUM</td><td>97</td><td>102</td></tr> <tr><td>COARSE GRAVEL W/FINE & MED SAND</td><td>BROWN</td><td>102</td><td>107</td></tr> <tr><td>COARSE GRAVEL W/MED SAND</td><td>BROWN</td><td>107</td><td>110</td></tr> <tr><td>SAND</td><td>BROWN MEDIUM</td><td>110</td><td>112</td></tr> <tr><td>VERY FINE SAND</td><td>BROWN</td><td>112</td><td>118</td></tr> <tr><td>SAND & GRAVEL</td><td>BROWN</td><td>118</td><td>122</td></tr> <tr><td>COARSE SAND & COARSE GRAVEL</td><td>BROWN</td><td>122</td><td>127</td></tr> <tr><td>COARSE SAND & GRAVEL</td><td>BROWN</td><td>127</td><td>129</td></tr> <tr><td>COARSE SAND & COARSE GRAVEL</td><td>BROWN</td><td>129</td><td>132</td></tr> <tr><td>COARSE SAND & GRAVEL</td><td>BROWN</td><td>132</td><td>137</td></tr> <tr><td>COARSE SAND & GRAVEL</td><td>GRAY</td><td>137</td><td>140</td></tr> <tr><td>FINE SAND</td><td>GRAY</td><td>140</td><td>145</td></tr> <tr><td>SAND & COARSE GRAVEL</td><td>GRAY</td><td>145</td><td>148</td></tr> <tr><td>SAND & COBBLES</td><td>GRAY</td><td>148</td><td>151</td></tr> <tr><td>SAND & GRAVEL W/COBBLES & SILT</td><td>GRAY</td><td>151</td><td>157</td></tr> <tr><td>COARSE SAND & SMALL COBBLES</td><td>GRAY</td><td>157</td><td>163</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>163</td><td>163</td></tr> </tbody> </table>		Color	Hardness	From	To	TOP SOIL & FILL		0	3	FINE SAND	BROWN	3	8	SAND & GRAVEL	BROWN	8	17	SAND	LT. BRN	17	29	SANDY CLAY & GRAVEL MIX	LT. BRN	29	42	SANDY CLAY & COARSE GRAVEL MIX	GRAY	42	47	SAND & GRAVEL WITHIN SANDY CLAY	GRAY	47	57	SANDY CLAY & SAND & GRAVEL	BROWN	57	60	SAND & GRAVEL	BROWN	60	65	VERY COARSE GRAVEL & COBBLES	BROWN	65	79	COARSE GRAVEL (DIRTY)	BROWN	79	92	COARSE SAND & GRAVEL	BROWN	92	97	SAND	BROWN MEDIUM	97	102	COARSE GRAVEL W/FINE & MED SAND	BROWN	102	107	COARSE GRAVEL W/MED SAND	BROWN	107	110	SAND	BROWN MEDIUM	110	112	VERY FINE SAND	BROWN	112	118	SAND & GRAVEL	BROWN	118	122	COARSE SAND & COARSE GRAVEL	BROWN	122	127	COARSE SAND & GRAVEL	BROWN	127	129	COARSE SAND & COARSE GRAVEL	BROWN	129	132	COARSE SAND & GRAVEL	BROWN	132	137	COARSE SAND & GRAVEL	GRAY	137	140	FINE SAND	GRAY	140	145	SAND & COARSE GRAVEL	GRAY	145	148	SAND & COBBLES	GRAY	148	151	SAND & GRAVEL W/COBBLES & SILT	GRAY	151	157	COARSE SAND & SMALL COBBLES	GRAY	157	163	CLAY	GRAY	163	163	Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
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CLAY	GRAY	163	163																																																																																																																							
		Casing Diameter 16 in. to 121 ft. Weight lbs./ft. Hole Diameter 24 in. to 122 ft. lbs./ft.																																																																																																																								
		Open Hole from ft. to ft.																																																																																																																								
		Screen YES Make JOINSON Type stainless steel																																																																																																																								
		<table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr><td>12</td><td>70</td><td></td><td>ft. and 162 ft.</td></tr> <tr><td>12</td><td>40</td><td></td><td>122 ft. and ft.</td></tr> </tbody> </table>	Diameter	Slot/Gauze	Length	Set Between	12	70		ft. and 162 ft.	12	40		122 ft. and ft.																																																																																																												
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		Static Water Level 18 ft. from Land surface Date Measured 09/02/1994																																																																																																																								
		PUMPING LEVEL (below land surface) 61 ft. after 6 hrs. pumping 1500 g.p.m.																																																																																																																								
REMARKS SOUTH WELL NO.1. WELL SEALED 11-04-2004 BY 91686 ORIGINAL USE PC - COMMUNITY SUPPLY		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																																																																								
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000) Unique Number Verification Information Date 02/23/2000 from owner System UTM - Nad83, Zone15, Meters X: 355377 Y: 5263125		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 121 ft. 164 bags																																																																																																																								
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																								
		Pump <input type="checkbox"/> Not Installed Date Installed 09/02/1994 Manufacturer's name GOULDS Model number 14RJI.0 IIP 75 Volts 450 Length of drop Pipe _ft. Capacity 1500 g.p.m Type Turbine Material																																																																																																																								
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																																																								
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																								
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Clay-gray Depth to Bedrock ft.		Well Contractor Certification Traut M.j. Well Co. 71536 TRAUT, T. License Business Name Lic. Or Reg. No. Name of Driller																																																																																																																								
County Well Index Online Report		547514 Printed 6/25/2008 HE-01205-07																																																																																																																								

Minnesota Unique Well No.

547515

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 01/08/1999
 Update Date 05/06/2005
 Received Date

Well Name BEMIDJI 2 Township Range Dir Section Subsections Elevation 1379 ft. 147 33 W 31 BDABDB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 148 ft. Depth Completed 148 ft. Date Well Completed 10/16/1994 Drilling Method Cable Tool
Well Address BEMIDJI MN 56601		Drilling Fluid Water Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material		Use Abandoned Status Sealed
FILL BROWN 0 6 SAND BROWN MEDIUM 6 24 SAND & GRAVEL BROWN MEDIUM 24 27 SAND BROWN 27 30 SILTY CLAY BROWN 30 32 MED SAND & COARSE GRAVEL BROWN 32 35 CLAY & GRAVEL GRAY 35 52 SAND BROWN MEDIUM 52 65 COARSE GRAVEL BROWN 65 70 MED SAND & COARSE GRAVEL BROWN 70 73 SAND BROWN MEDIUM 73 75 COARSE SAND & MED GRAVEL BROWN 75 87 COARSE SAND & MED. GRVL W/LG ROCKS GRAY 87 90 CRS. SAND & CRS. GRVL W/LG ROCKS GRAY 90 98 VERY COARSE GRAVEL GRAY 98 102 MED SAND & COARSE GRAVEL GRAY 102 104 COARSE SAND & COARSE GRAVEL GRAY 104 107 SAND & COARSE GRAVEL GRAY 107 109 VERY COARSE SAND & VERY CRS. GRVL GRAY 109 114 MED SAND & CRS. GRAVEL GRAY 114 117 VRY CRS, SND & VRY CRS. GRVL W/IRKS GRAY 117 122 VERY COARSE GRVL W/MED SAND GRAY 122 127 VERY COARSE GRVL W/MED SAND GRY/BRN 127 130 COARSE GRAVEL & COARSE SAND GRAY 130 132 FINE SAND & MED SAND W/GRAVEL GRAY 132 138 MED SAND W/GRAVEL GRAY 138 145 FINE SAND GRAY 145 148	Color Hardness From To	Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
		Casing Diameter 24 in. to 98 ft. lbs./ft. 16 in. to 104 ft. lbs./ft.
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
		Diameter 12 Slot/Gauze 40 Length 40 Set Between 104 ft. and 144 ft.
		Static Water Level 18 ft. from Land surface Date Measured 10/16/1994
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONI.Y)
REMARKS NORTH WELL NO.2. WELL SEALED 2-20-2003, BY NORTH STAR DRILLING H-198594. WELL SEALED 02-20-2003 BY 49588 ORIGINAL USE PC - COMMUNITY SUPPLY		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from 0 to 91 ft. 143 bags
Located Minnesota Department of Health Method GPS SA On (averaged) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 355475 Y: 5263433		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Well Contractor Certification Traut M.j. Well Co. 71536 TRAUT, T. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		547515 Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

549969

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 01/01/1980
 Update Date 01/03/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name LOREN, ROBERT				Well Depth 108 ft.		Depth Completed 108 ft.		Date Well Completed 03/24/1995																															
Township Range Dir Section Subsections Elevation 147 33 W 31 ABD				Elevation 1380 ft. Calc from DEM (USGS 7.5 min or equiv.)		Elevation Method																																	
<table border="0" style="width:100%;"> <tr> <td style="width:20%;">Geological Material</td> <td style="width:15%;">Color</td> <td style="width:15%;">Hardness</td> <td style="width:10%;">From</td> <td style="width:10%;">To</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>49</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>MEDIUM</td> <td>49</td> <td>67</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>67</td> <td>72</td> </tr> <tr> <td>CLAY AND SAND</td> <td>GRAY</td> <td>MEDIUM</td> <td>72</td> <td>93</td> </tr> <tr> <td>SAND</td> <td>YELLOW</td> <td>MEDIUM</td> <td>93</td> <td>108</td> </tr> </table>				Geological Material	Color	Hardness	From	To	SAND	BROWN	SOFT	0	49	CLAY	GRAY	MEDIUM	49	67	SAND	GRAY	SOFT	67	72	CLAY AND SAND	GRAY	MEDIUM	72	93	SAND	YELLOW	MEDIUM	93	108	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Geological Material	Color	Hardness	From	To																															
				SAND	BROWN	SOFT	0	49																															
				CLAY	GRAY	MEDIUM	49	67																															
				SAND	GRAY	SOFT	67	72																															
				CLAY AND SAND	GRAY	MEDIUM	72	93																															
				SAND	YELLOW	MEDIUM	93	108																															
				Use Domestic																																			
				Casing Type Plastic Joint Glued <input type="checkbox"/> Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																																			
				Casing Diameter		Weight		Hole Diameter																															
4 in. to 96 ft.		1.87 lbs./ft.		8.3 in. to 30 ft. 6.25 in. to 108 ft.																																			
Open Hole from ft. to ft.																																							
Screen YES		Make COOK		Type stainless steel																																			
Diameter		Slot/Gauze		Length		Set Between																																	
2		12		12		96 ft. and 108 ft.																																	
Static Water Level 12 ft. from Land surface Date Measured 03/24/1995																																							
PUMPING LEVEL (below land surface) 108 ft. after 120 hrs. pumping 75 g.p.m.																																							
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
<i>NO REMARKS</i>																																							
Located Beltrami Cty. Soil & Water Cons. Dist.				Method GPS SA On (averaged)																																			
Unique Number				Date N/A																																			
Verification Information from owner				System UTM - Nad83, Zone15, Meters																																			
X: 356185				Y: 5262812																																			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 7 to 30 ft. 4 bags																																							
Nearest Known Source of Contamination 55 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																							
Pump <input type="checkbox"/> Not Installed Date Installed 03/24/1995 Manufacturer's name GOULD Model number 48LE30 HP 3 Volts 230 Length of drop Pipe 80 ft. Capacity 70 g.p.m Type Submersible Material																																							
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																							

Minnesota Unique Well No.

564264

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/10/1995
 Update Date 05/06/2005
 Received Date

Well Name BEMIDJI POTATO		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		119 ft.	119 ft.	05/08/1995	
147	34 W 25 BDAD	Elevation Method 1386 ft. Calc from DEM (USGS 7.5 min or equiv.)			
Geological Material Color Hardness From To SAND BROWN SOFT 0 28 SANDY CLAY GRAY MEDIUM 28 38 SANDY CLAY BROWN MEDIUM 38 53 SAND BROWN MEDIUM 53 78 FINE SAND BROWN MEDIUM 78 95 SAND BROWN MEDIUM 95 100 SAND GRAY MEDIUM 100 119		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Bentonite		From Ft. to Ft.	
		Use Abandoned Status Sealed			
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe?			
		<input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			
		Casing Diameter		Weight	Hole Diameter
		12 in. to 99 ft.		50 lbs./ft.	18 in. to 119 ft.
		Open Hole from ft. to ft.			
		Screen YES Make COOK Type stainless steel			
		Diameter		Slot/Gauze	Length
12		70	20	99 ft. and 119 ft.	
Static Water Level					
11 ft. from Land surface Date Measured 05/08/1995					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer TOPHEAD Model					
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WELL SEALED 04-20-2001 BY 49588		Grout Material: Bentonite from 0 to 30 ft. 0			
ORIGINAL USE IR - IRRIGATION					
Located Beltrami Cty. Soil & Water Cons. Dist.		Method Digitization (Screen) - Map (1:24,000)			
Unique Number Verification Tag on well		Date 02/07/2005			
System UTM - Nad83, Zone 15, Meters		X: 354075 Y: 5264977			
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number __ HP 0 Volts			
		Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
First Bedrock		Traut S.m. Well Co. 21535 NEYENS, J.			
Last Strat		License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		564264		Printed 6/25/2008 HF-01205-07	

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 12/20/1995
Update Date 01/06/2005
Received Date

Minnesota Unique Well No.

564764

County Beltrami
Quad Bemidji West
Quad ID 302B

*Minnesota Statutes Chapter
1031*

Well Name PLATT, RODNEY				Well Depth 64 ft.		Depth Completed 64 ft.		Date Well Completed 06/10/1995		
Township Range Dir Section Subsections Elevation 146 34 W 2 AAD				Elevation Method 1380 ft. Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Non-specified Rotary				
Well Address CINDY LA BEMIDJI MN 56601				Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.				
Geological Material SAND				Color BROWN		Hardness SOFT		From To 0 64		
Use Domestic				Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.						
Open Hole from ft. to ft.				Casing Diameter 4 in. to 60 ft.		Weight lbs./ft.		Hole Diameter 6.75 in. to 64 ft.		
Screen YES				Make JOHNSON		Type stainless steel				
Static Water Level 15 ft. from Land surface Date Measured 06/10/1995				Diameter 2		Slot/Gauze 12		Length 4		Set Between 61 ft. and 64 ft.
PUMPING LEVEL (below land surface) 50 ft. after 60 hrs. pumping 10 g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Grout Material: Bentonite from 8 to 30 ft. 2 bags						
Nearest Known Source of Contamination 50 feet North East direction Septic tank/drain field type				Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Pump <input type="checkbox"/> Not Installed Date Installed				Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material						
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
NO REMARKS										
Located Beltrami Cty. Soil & Water Cons. Dist.				Method GPS SA On (averaged)						
Unique Number Verification N/A				Date N/A						
System UTM - Nad83, Zone15, Meters				X: 353102 Y: 5261799						

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Aqua Well Drilling</u>	<u>04463</u> <u>PLATT, R.</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		564764	Printed 6/25/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 02/25/1997
Update Date 05/05/2005
Received Date

Minnesota Unique Well No.

579729

County Beltrami
Quad Bemidji West
Quad ID 302B

*Minnesota Statutes Chapter
1031*

Well Name JOHNSON, BUCK				Well Depth 47 ft.		Depth Completed 47 ft.		Date Well Completed 08/19/1996																															
Township Range Dir Section Subsections Elevation 146 34 W 2 ADAB				Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Non-specified Rotary																																	
Well Address RR 2 BOX 45 BEMIDJI MN 56601 <table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>7</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>7</td> <td>18</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>18</td> <td>31</td> </tr> <tr> <td>SAND AND CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>31</td> <td>40</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>40</td> <td>47</td> </tr> </table>				Geological Material	Color	Hardness	From	To	SAND	BROWN	SOFT	0	7	SAND	GRAY	SOFT	7	18	CLAY	GRAY	SOFT	18	31	SAND AND CLAY	GRAY	SOFT	31	40	SAND	GRAY	SOFT	40	47	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Geological Material	Color	Hardness	From	To																															
				SAND	BROWN	SOFT	0	7																															
				SAND	GRAY	SOFT	7	18																															
				CLAY	GRAY	SOFT	18	31																															
				SAND AND CLAY	GRAY	SOFT	31	40																															
				SAND	GRAY	SOFT	40	47																															
				Use Domestic		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																	
				Casing Diameter		Weight		Hole Diameter																															
				4 in. to 43 ft.		lbs./ft.		6.75 in. to 47 ft.																															
Open Hole from ft. to ft.																																							
Screen YES		Make WESCO		Type stainless steel																																			
Diameter		Slot/Gauze		Length		Set Between																																	
2		12		4		43 ft. and 47 ft.																																	
Static Water Level 15 ft. from Land surface Date Measured 08/19/1996																																							
PUMPING LEVEL (below land surface) 25 ft. after 60 hrs. pumping 30 g.p.m.																																							
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
<p align="center">NO REMARKS</p> Located Beltrami Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A System UTM - Nad83, Zone15, Meters Date 05/05/2005 X: 353030 Y: 5261878				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																			
				Grout Material: Bentonite						from 8 to 30 ft.		2 bags																											
				Nearest Known Source of Contamination 100 feet E direction Septic tank/drain field type																																			
				Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																			
				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material																																			
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																							

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Aqua Well Drilling</u> <u>04463</u> <u>CESOLINI, C.</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		579729	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

590872

County Beltrami
 Quad Peterson Lake
 Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1997
 Update Date 05/06/2005
 Received Date

Well Name BEMIDJI TW. Township Range Dir Section Subsections Elevation 1385 ft. 147 33 W 31 BDCCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 172 ft. Depth Completed 167 ft. Date Well Completed 12/06/1996																																																									
Well Address BEMIDJI MN 56601 <table border="1"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BLACK</td><td></td><td>0</td><td>1</td></tr> <tr><td>SAND-FINE</td><td>BROWN</td><td></td><td>1</td><td>32</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>32</td><td>34</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td></td><td>34</td><td>38</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>38</td><td>47</td></tr> <tr><td>SAND-FINE</td><td>BROWN</td><td></td><td>47</td><td>52</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>52</td><td>67</td></tr> <tr><td>SAND & GRAVEL</td><td>BROWN</td><td></td><td>67</td><td>122</td></tr> <tr><td>SAND & GRAVEL</td><td>VARIED</td><td></td><td>122</td><td>168</td></tr> <tr><td>CLAY</td><td>GRAY</td><td></td><td>168</td><td>172</td></tr> </tbody> </table>					Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	1	SAND-FINE	BROWN		1	32	SANDY CLAY	GRAY		32	34	SANDY CLAY	BROWN		34	38	SANDY CLAY	GRAY		38	47	SAND-FINE	BROWN		47	52	SANDY CLAY	GRAY		52	67	SAND & GRAVEL	BROWN		67	122	SAND & GRAVEL	VARIED		122	168	CLAY	GRAY		168	172	Drilling Method Non-specified Rotary		
					Geological Material	Color	Hardness	From	To																																																					
					TOP SOIL	BLACK		0	1																																																					
					SAND-FINE	BROWN		1	32																																																					
					SANDY CLAY	GRAY		32	34																																																					
					SANDY CLAY	BROWN		34	38																																																					
					SANDY CLAY	GRAY		38	47																																																					
					SAND-FINE	BROWN		47	52																																																					
					SANDY CLAY	GRAY		52	67																																																					
					SAND & GRAVEL	BROWN		67	122																																																					
SAND & GRAVEL	VARIED		122	168																																																										
CLAY	GRAY		168	172																																																										
Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																																												
Use Abandoned Status Sealed																																																														
Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																																														
Casing Diameter 12 in. to 122 ft.		Weight 49.56 lbs./ft.		Hole Diameter 17.5 in. to 170 ft.																																																										
Open Hole from ft. to ft.																																																														
Screen YES Make JOHNSON Type stainless steel																																																														
Diameter 12 12		Slot/Gauze 60 45		Length ft. and 167 ft. 122 ft. and ft.																																																										
Static Water Level 16 ft. from Land surface Date Measured 12/06/1996																																																														
PUMPING LEVEL (below land surface) 82.7 ft. after 24 hrs. pumping 1330 g.p.m.																																																														
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																														
REMARKS TEST WELL PULLED & GROUTED. WELL SEALED 12-06-1996 BY 91686 ORIGINAL USE TW - TEST WELL					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 122 ft. 12 bags																																																									
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000)					Nearest Known Source of Contamination _feet _direction _type																																																									
Unique Number Verification Other, note in remarks Date N/A					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																									
System UTM - Nad83, Zone15, Meters X: 355234 Y: 5263193					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																									
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Clay-gray Depth to Bedrock ft.					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																									
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																									
					Well Contractor Certification L.t.p. Enterprises, Inc. 91686 SACAZAR, B. License Business Name Lic. Or Reg. No. Name of Driller																																																									
County Well Index Online Report			590872		Printed 6/25/2008 HE-01205-07																																																									

SITE SUMMARY

Site Name: Blackhoof

Fire Department: Blackhoof Fire Department
1757 Valleyview Road
Barnum, MN 55707

Site Contact: Royce Lattu, Fire Chief
218-384-4963
royce.lattu@msn.com

Training Location: 3148 County Road 5, Barnum

Type of foam used in training: F-500 by Hazard Control Technology (HCT)

Foam training frequency: Semi-Annually as of Fall 2007; no foam use prior to Fall 2007

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: HCT F-500: 2 gallons

Nearest surface water: Ellstrom Lake located approximately 1/3 mile northwest

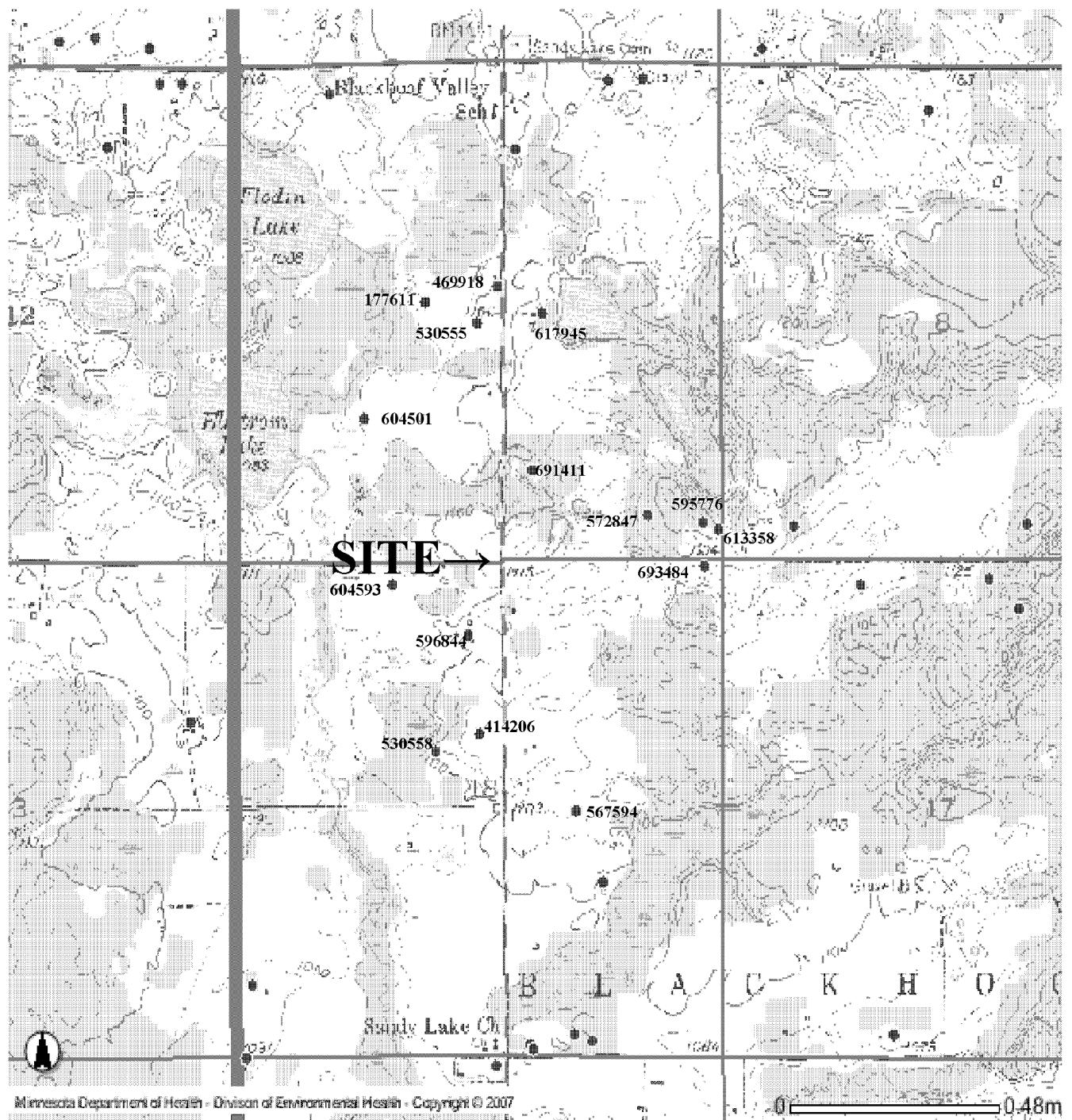
Nearest wetland: Approximately 1/3 mile west

Nearest water well: Less than 1/4 mile southwest

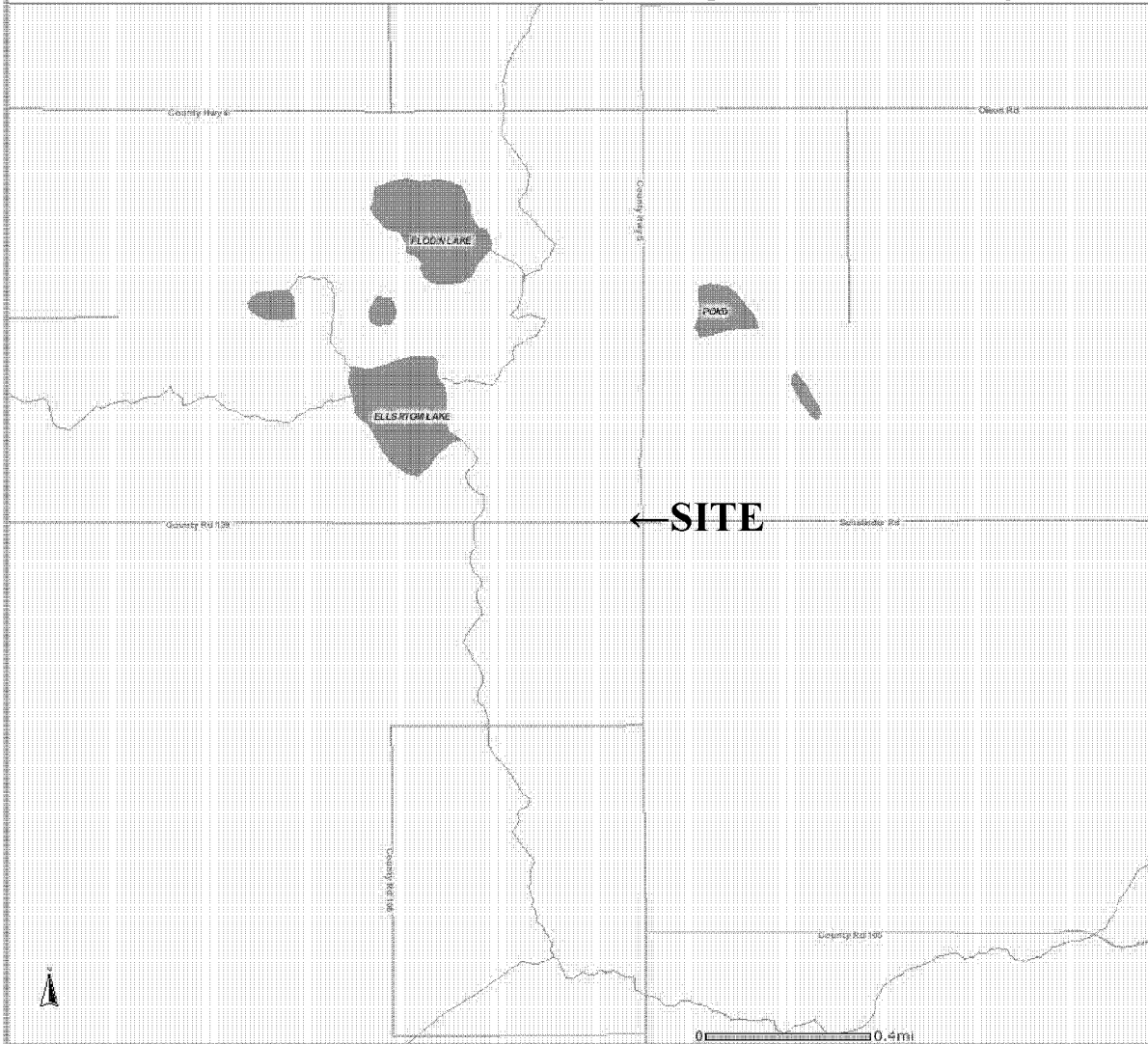
Nearest Wellhead Protection Area: None within 1 mile

SITE RANKING: 7

BLACKHOOF CWI Well Map



Blackhoof *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

177611

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
 Update Date 02/06/2006
 Received Date

Well Name SWANSON, DARREL Township Range Dir Section Subsections Elevation 47 17 W 7 BDDCCA Elevation Method 1093 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 90 ft.	Depth Completed 90 ft.	Date Well Completed 05/07/1981
Well Address 1265 5 HC CARLTON MN 55707		Drilling Method Cable Tool		
Geological Material SAND COARSE SAND SAND & CLAY VERY FINE SAND FINE SAND		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Color BROWN BROWN RED BROWN BROWN		Use Domestic		
Hardness SOFT MEDIUM SOFT SOFT SOFT		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
From 0 26 45 70 80		Casing Diameter 4 in. to 90 ft. Weight 10.5 lbs./ft. Hole Diameter		
To 26 45 70 80 90		Open Hole from ft. to ft.		
Geological Material		Screen YES Make JOHNSON Type stainless steel		
Diameter 2		Diameter 2 Slot/Gauze 10 Length 4 Set Between 86 ft. and 90 ft.		
Static Water Level 24 ft. from Land surface Date Measured 05/07/1981		PUMPING LEVEL (below land surface) 33 ft. after 24 hrs. pumping 12 g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
NO REMARKS		Nearest Known Source of Contamination 110 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000)		Pump <input type="checkbox"/> Not Installed Date Installed 05/15/1981 Manufacturer's name PIONEER Model number A1212C HP 0.5 Volts 230 Length of drop Pipe 76 ft. Capacity 12 g.p.m. Type Submersible Material Plastic		
Unique Number Verification N/A Date 04/14/2005		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 534959 Y: 5157512		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Last Strat Sand-brown		Well Contractor Certification Klavu Well Co. 09323 KLAVU, E. License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		177611		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

414206

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
 Update Date 02/09/2006
 Received Date

Well Name KOSKI, SUE Township Range Dir Section Subsections Elevation 1122 ft. 47 17 W 18 ACBCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 67 ft.	Depth Completed 67 ft.	Date Well Completed 04/06/1987		
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Domestic				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.				
Casing Diameter 4 in. to 63 ft.		Weight 11 lbs./ft.		Hole Diameter				
Open Hole from ft. to ft.				Screen YES Make JOINSON Type stainless steel				
Geological Material SAND CLEAN SAND		Color BROWN BROWN		Hardness SOFT SOFT		From To 0 61 61 67		
Static Water Level 46 ft. from Land surface Date Measured 04/06/1987				PUMPING LEVEL (below land surface) 46 ft. after 1 hrs. pumping 6 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
NO REMARKS				Nearest Known Source of Contamination 300 feet E direction <u>Septic tank/drain field</u> type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 04/15/2005 System UTM - Nad83, Zone15, Meters X: 535160 Y: 5156118				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Last Strat Sand-brown				Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.				
County Well Index Online Report				414206		Printed 6/25/2008 HE-01205-07		

Minnesota Unique Well No.

469918

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
 Update Date 02/06/2006
 Received Date

<p>Well Name SWANSON, DARRELL Township Range Dir Section Subsections Elevation 1100 ft. 47 17 W 7 ACCCAB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address 1257 5 CR CARLTON MN 55718</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>SANDY LOAM</td> <td>RED</td> <td>SOFT</td> <td>0</td> <td>8</td> </tr> <tr> <td>SANDY CLAY</td> <td>RED</td> <td>MEDIUM</td> <td>8</td> <td>12</td> </tr> <tr> <td>SAND & GRAVEL</td> <td>BROWN</td> <td>MEDIUM</td> <td>12</td> <td>35</td> </tr> <tr> <td>SAND & GRAVEL</td> <td>BLACK</td> <td>SOFT</td> <td>35</td> <td>40</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SANDY LOAM	RED	SOFT	0	8	SANDY CLAY	RED	MEDIUM	8	12	SAND & GRAVEL	BROWN	MEDIUM	12	35	SAND & GRAVEL	BLACK	SOFT	35	40	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Well Depth 40 ft.</td> <td style="text-align: center;">Depth Completed 40 ft.</td> <td style="text-align: center;">Date Well Completed 10/11/1990</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid Water</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Domestic</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</td> </tr> <tr> <td>Casing Diameter 6 in. to 38 ft.</td> <td>Weight 18.97 lbs./ft.</td> <td>Hole Diameter 6 in. to ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td>Diameter 5</td> <td>Slot/Gauze 15</td> <td>Length 3.5</td> </tr> <tr> <td colspan="3">Set Between 38 ft. and 40 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 10 ft. from Land surface Date Measured 10/11/1990</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 30 ft. after 1 hrs. pumping 50 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination 105 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed 10/20/1990 Manufacturer's name Model number HP 0.5 Volts 220 Length of drop Pipe ft. Capacity 12 g.p.m. Type Material Plastic</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, C License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> <tr> <td colspan="2">County Well Index Online Report</td> <td style="text-align: center;">469918</td> </tr> </table>	Well Depth 40 ft.	Depth Completed 40 ft.	Date Well Completed 10/11/1990	Drilling Method Non-specified Rotary			Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Domestic			Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.			Casing Diameter 6 in. to 38 ft.	Weight 18.97 lbs./ft.	Hole Diameter 6 in. to ft.	Open Hole from ft. to ft.			Screen YES Make JOHNSON Type stainless steel			Diameter 5	Slot/Gauze 15	Length 3.5	Set Between 38 ft. and 40 ft.			Static Water Level 10 ft. from Land surface Date Measured 10/11/1990			PUMPING LEVEL (below land surface) 30 ft. after 1 hrs. pumping 50 g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Nearest Known Source of Contamination 105 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input type="checkbox"/> Not Installed Date Installed 10/20/1990 Manufacturer's name Model number HP 0.5 Volts 220 Length of drop Pipe ft. Capacity 12 g.p.m. Type Material Plastic			Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, C License Business Name Lic. Or Reg. No. Name of Driller			County Well Index Online Report		469918
Geological Material	Color	Hardness	From	To																																																																																		
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Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.																																																																																						
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County Well Index Online Report		469918																																																																																				
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification N/A Date 04/14/2005</p> <p>System UTM - Nad83, Zone15, Meters X: 535224 Y: 5157563</p> <p>First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Sand & larger-black Depth to Bedrock ft.</p>		<p>Printed 6/25/2008 HE-01205-07</p>																																																																																				

Minnesota Unique Well No.

530555

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/30/1993
 Update Date 02/07/2006
 Received Date

Well Name CHRISTENSON, ELLAREY Township Range Dir Section Subsections Elevation 1097 ft. 47 17 W 7 CAAAAD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 92 ft.	Depth Completed 92 ft.	Date Well Completed 09/28/1993
Well Address CARLTON MN 55718				Drilling Method Cable Tool		
Geological Material				Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
SAND BROWN SOFT 0 4 SANDY CLAY BROWN SOFT 4 16 SAND GRAVEL BROWN SOFT 16 20 SANDY CLAY BROWN SOFT 20 37 SAND & GRAVEL BROWN MEDIUM 37 42 CLAY SILT BROWN SOFT 42 86 SAND FINE BROWN SOFT 86 92				Use Domestic		
Well Head Completion Pitless adapter manufacturer MONITOR Model PL50 <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Static Water Level 22 ft. from Land surface Date Measured 09/17/1993				Casing Diameter 5 in. to 88 ft. Weight 15 lbs./ft. Hole Diameter		
PUMPING LEVEL (below land surface) 40 ft. after 2 hrs. pumping 10 g.p.m.				Open Hole from ft. to ft.		
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from to ft. 2 bags				Screen YES Make COOK Type stainless steel		
Nearest Known Source of Contamination 60 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Diameter 3 Slot/Gauze 10 Length 4 Set Between 88 ft. and 92 ft.		
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Pump <input type="checkbox"/> Not Installed Date Installed 09/22/1993 Manufacturer's name MEYERS Model number RM 2N 52-12 HP 0.5 Volts 230 Length of drop Pipe 60 ft. Capacity 10 g.p.m. Type Submersible Material		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				Well Contractor Certification Klavu Well Drilling 09650 KLAVU, R. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.				County Well Index Online Report		
County Well Index Online Report				530555		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

530558

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/31/1994
 Update Date 02/09/2006
 Received Date

Well Name NEGAARD, DONALD M. Township Range Dir Section Subsections Elevation 1111 ft. 47 17 W 18 BDDBAB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 85 ft.	Depth Completed 85 ft.	Date Well Completed 02/01/1994
Well Address 893 106 CR BARNUM MN 55707		Drilling Method Cable Tool		
Geological Material		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
SAND BROWN SOFT 0 18 SAND & GRAVEL BROWN MEDIUM 18 24 SAND BROWN SOFT 24 32 SANDY CLAY BROWN SOFT 32 62 CLAY BROWN SOFT 62 75 SANDY CLAY BROWN SOFT 75 82 FINE SAND BROWN SOFT 82 85		Use Domestic		
Well Head Completion Pitless adapter manufacturer MONITOR Model PL5U <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Static Water Level 32 ft. from Land surface Date Measured 11/02/1994		Casing Diameter 5 in. to 82 ft. Weight 15 lbs./ft. Hole Diameter		
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from to ft. 2 bags		Open Hole from ft. to ft.		
Nearest Known Source of Contamination 90 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Screen YES Make COOK Type stainless steel		
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Diameter 3 Slot/Gauze 12 Length 4 Set Between 82 ft. and 85 ft.		
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.		PUMPING LEVEL (below land surface) 65 ft. after 2 hrs. pumping 10 g.p.m.		
County Well Index Online Report		Well Contractor Certification 08650 KLAUVU, E. License Business Name Lic. Or Reg. No. Name of Driller		

NO REMARKS

Located Carlton Cty. Soil & Water Cons. Dist. **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 04/15/2005
System UTM - Nad83, Zone15, Meters X: 534997 Y: 5156062

530558

Printed 6/25/2008
 HE-01205-07

Minnesota Unique Well No.

567594

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 10/04/1996
 Update Date 02/09/2006
 Received Date

<p>Well Name HANSEN, GERALD Township Range Dir Section Subsections Elevation 1124 ft. 47 17 W 18 DBAABB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 68 ft. Depth Completed 68 ft. Date Well Completed 08/01/1996 Drilling Method Non-specified Rotary</p>																																		
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>FINE SAND</td> <td>RED SOFT</td> <td>0</td> <td>10</td> </tr> <tr> <td>SANDY CLAY</td> <td>RED M.SOFT</td> <td>10</td> <td>36</td> </tr> <tr> <td>FINE SAND</td> <td>RED SOFT</td> <td>36</td> <td>55</td> </tr> <tr> <td>MED. SAND</td> <td>BROWN SOFT</td> <td>55</td> <td>68</td> </tr> </tbody> </table>	Color	Hardness	From	To	FINE SAND	RED SOFT	0	10	SANDY CLAY	RED M.SOFT	10	36	FINE SAND	RED SOFT	36	55	MED. SAND	BROWN SOFT	55	68	<p>Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 64 ft.</td> <td>11 lbs./ft.</td> <td>6.75 in. to 68 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>10</td> <td>4</td> <td>64 ft. and 68 ft.</td> </tr> </tbody> </table> <p>Static Water Level 39 ft. from Land surface Date Measured 12/19/1996</p> <p>PUMPING LEVEL (below land surface) 65 ft. after 1 hrs. pumping 12 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer MONITOR Model SN <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 64 ft.	11 lbs./ft.	6.75 in. to 68 ft.	Diameter	Slot/Gauze	Length	Set Between	2	10	4	64 ft. and 68 ft.
	Color	Hardness	From	To																															
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	SANDY CLAY	RED M.SOFT	10	36																															
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	2	10	4	64 ft. and 68 ft.																															
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 04/15/2005 System UTM - Nad83, Zone15, Meters X: 535515 Y: 5155869</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 30 ft. 2 bags</p>																																		
	<p>Nearest Known Source of Contamination 50 feet South East direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																		
	<p>Pump <input type="checkbox"/> Not Installed Date Installed 08/01/1996 Manufacturer's name GOULDS Model number 10GS05412 IIP 0.5 Volts 230 Length of drop Pipe 59 ft. Capacity 10 g.p.m Type Submersible Material</p>																																		
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>																																		
<p>First Bedrock Aquifer Quat. Buried Unconf. Aquife Last Strat Sand-red Depth to Bedrock ft.</p>	<p>Well Contractor Certification Rosga Well Co. 58069 BUSSE, G. License Business Name Lic. Or Reg. No. Name of Driller</p>																																		
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">567594</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/25/2008 HE-01205-07</p>																																		

Minnesota Unique Well No.

572847

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/19/1996
 Update Date 11/15/2007
 Received Date

<p>Well Name SALMI, ROBERT J. Township Range Dir Section Subsections Elevation 1139 ft. 47 17 W 7 DDCADB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 157 ft.</td> <td style="width:33%;">Depth Completed 157 ft.</td> <td style="width:33%;">Date Well Completed 11/22/1995</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 157 ft.	Depth Completed 157 ft.	Date Well Completed 11/22/1995	Drilling Method Non-specified Rotary																																																											
Well Depth 157 ft.	Depth Completed 157 ft.	Date Well Completed 11/22/1995																																																														
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<p>Well Address 2341 SCHELINDER RD CARLTON MN 55718</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>60</td> </tr> <tr> <td>SANDY CLAY</td> <td>RED</td> <td>SOFT</td> <td>60</td> <td>75</td> </tr> <tr> <td>CLAY</td> <td>BROWN</td> <td>MEDIUM</td> <td>75</td> <td>101</td> </tr> <tr> <td>FINE SILTY</td> <td>BROWN</td> <td>MEDIUM</td> <td>101</td> <td>140</td> </tr> <tr> <td>FINE SAND</td> <td>RED</td> <td>SOFT</td> <td>140</td> <td>151</td> </tr> <tr> <td>MED. SAND</td> <td>BROWN</td> <td>SOFT</td> <td>151</td> <td>157</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SAND	BROWN	SOFT	0	60	SANDY CLAY	RED	SOFT	60	75	CLAY	BROWN	MEDIUM	75	101	FINE SILTY	BROWN	MEDIUM	101	140	FINE SAND	RED	SOFT	140	151	MED. SAND	BROWN	SOFT	151	157	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid Water</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Domestic</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter 6 in. to 154.7 ft.</td> <td>Weight 18.97 lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make COOK</td> <td>Type stainless steel</td> </tr> <tr> <td>Diameter 4</td> <td>Slot/Gauze 12</td> <td>Length 4</td> <td>Set Between 157 ft. and 154 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 60 ft. from Land surface Date Measured 11/22/1995</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 150 ft. after 1 hrs. pumping 50 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Domestic		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter 6 in. to 154.7 ft.	Weight 18.97 lbs./ft.	Hole Diameter	Open Hole from ft. to ft.			Screen YES	Make COOK	Type stainless steel	Diameter 4	Slot/Gauze 12	Length 4	Set Between 157 ft. and 154 ft.	Static Water Level 60 ft. from Land surface Date Measured 11/22/1995			PUMPING LEVEL (below land surface) 150 ft. after 1 hrs. pumping 50 g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
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<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, C License Business Name Lic. Or Reg. No. Name of Driller</p>																																																															
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">572847</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/25/2008 HE-01205-07</p>																																																															

Minnesota Unique Well No.

595776

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 09/18/1997
 Update Date 02/07/2006
 Received Date

Well Name SWANSON, RYAN Township Range Dir Section Subsections Elevation 1162 ft. 47 17 W 7 DDDACD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 184 ft.	Depth Completed 184 ft.	Date Well Completed 06/11/1997
Drilling Method Multiple methods used							
Drilling Fluid Water		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.					
Use Domestic							
Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.							
Casing Diameter 6 in. to 118 ft.		Weight 18.97 lbs./ft.	Hole Diameter				
Open Hole from ft. to ft.							
Screen YES Make WESCO Type stainless steel							
Diameter 4		Slot/Gauze 12	Length 4	Set Between 181.5 ft. and 184 ft.			
Geological Material							
SAND SAND		Color RED BROWN	Hardness MEDIUM SOFT	From 0 180			
To 180 184							
Static Water Level 70 ft. from Land surface Date Measured 06/11/1997							
PUMPING LEVEL (below land surface) 170 ft. after 1 hrs. pumping 30 g.p.m.							
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)							
NO REMARKS							
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Nearest Known Source of Contamination 35 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material							
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Well Contractor Certification Sunnarborg Well Co. 09437 SUNARBORG. H License Business Name Lic. Or Reg. No. Name of Driller							
First Bedrock Last Strat Sand-brown		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.					
County Well Index Online Report		595776		Printed 6/25/2008 HE-01205-07			

Minnesota Unique Well No.

596844

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/28/1998
 Update Date 02/09/2006
 Received Date

<p>Well Name WARD, SUSAN Township Range Dir Section Subsections Elevation 1103 ft. 47 17 W 18 BADAAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 123 ft.</td> <td style="width:33%;">Depth Completed 123 ft.</td> <td style="width:33%;">Date Well Completed 01/21/1998</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 123 ft.	Depth Completed 123 ft.	Date Well Completed 01/21/1998	Drilling Method Non-specified Rotary																																																				
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<p>Well Address 2935 5 CR BARNUM MN 55707</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">Geological Material</th> <th style="width:15%;">Color</th> <th style="width:15%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>50</td> </tr> <tr> <td>CLAY</td> <td>RED</td> <td>MEDIUM</td> <td>50</td> <td>60</td> </tr> <tr> <td>FINE SAND & CLAY</td> <td>RED</td> <td>MEDIUM</td> <td>60</td> <td>95</td> </tr> <tr> <td>FINE SAND</td> <td>RED</td> <td>SOFT</td> <td>95</td> <td>123</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SAND	BROWN	SOFT	0	50	CLAY	RED	MEDIUM	50	60	FINE SAND & CLAY	RED	MEDIUM	60	95	FINE SAND	RED	SOFT	95	123	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Drilling Fluid Water</td> <td style="width:66%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Domestic</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter 6 in. to 120 ft.</td> <td style="width:33%;">Weight 19.45 lbs./ft.</td> <td style="width:33%;">Hole Diameter 6 in. to 123 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make COOK Type stainless steel</td> </tr> <tr> <td style="width:25%;">Diameter 4</td> <td style="width:25%;">Slot/Gauze 7</td> <td style="width:25%;">Length 4</td> <td style="width:25%;">Set Between 120 ft. and 123 ft.</td> </tr> <tr> <td colspan="4">Static Water Level 24.7 ft. from Land surface Date Measured 01/16/1998</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface) 34.5 ft. after 2 hrs. pumping 18 g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Domestic		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter 6 in. to 120 ft.	Weight 19.45 lbs./ft.	Hole Diameter 6 in. to 123 ft.	Open Hole from ft. to ft.			Screen YES Make COOK Type stainless steel			Diameter 4	Slot/Gauze 7	Length 4	Set Between 120 ft. and 123 ft.	Static Water Level 24.7 ft. from Land surface Date Measured 01/16/1998				PUMPING LEVEL (below land surface) 34.5 ft. after 2 hrs. pumping 18 g.p.m.				Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 04/15/2005 System UTM - Nad83, Zone15, Meters X: 535117 Y: 5156436</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from 0 to 120 ft. 5 bags</p> <p>Nearest Known Source of Contamination 50 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed 01/21/1998 Manufacturer's name STA-RITE Model number 10P4C01S HP 0.5 Volts 115 Length of drop Pipe 40 ft. Capacity 15 g.p.m. Type Submersible Material</p>																																																								
<p>First Bedrock Last Strat Sand-red Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Well Contractor Certification Petersen Well Co. 69183 PETERSEN, D. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																								
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">596844</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/25/2008 HE-01205-07</p>																																																								

Minnesota Unique Well No.

604501

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/28/1998
 Update Date 02/07/2006
 Received Date

Well Name BROWNE, KEVIN Township Range Dir Section Subsections Elevation 1091 ft. 47 17 W 7 CACCB D Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 56 ft.	Depth Completed 56 ft.	Date Well Completed 11/03/1997	
Drilling Method Cable Tool					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
Use Domestic					Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Well Address 2845 5 CR CARLTON MN 55718					Casing Diameter in. to 52 ft.	Weight 15 lbs./ft.	Hole Diameter	
Geological Material					Open Hole from ft. to ft.			
SAND BROWN MEDIUM 0 22 SANDY CLAY BROWN SOFT 22 37 SAND-GRAVEL BROWN MEDIUM 37 49 SAND BROWN MEDIUM 49 56					Screen YES Make COOK Type stainless steel	Diameter 3 Slot/Gauze 10 Length 4 Set Between 52 ft. and 56 ft.		
Static Water Level 12 ft. from Land surface Date Measured 09/07/1997					PUMPING LEVEL (below land surface) 15 ft. after 24 hrs. pumping 12 g.p.m.			
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PL5U <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft. 1 bags			
NO REMARKS					Nearest Known Source of Contamination 60 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Located Carlton Cty. Soil & Water Cons. Dist. Method GPS Differentially Corrected Unique Number Verification Tag on well Date N/A System UTM - Nad83, Zone15, Meters X: 534734 Y: 5157135					Pump <input type="checkbox"/> Not Installed Date Installed 11/03/1997 Manufacturer's name MYERS Model number 2NF152 IIP 0.5 Volts 230 Length of drop Pipe 20 ft. Capacity 12 g.p.m. Type Submersible Material			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
County Well Index Online Report					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Well Contractor Certification Klavu Well Drilling 09650 KLAVU, R. License Business Name Lic. Or Reg. No. Name of Driller					Printed 6/25/2008 HE-01205-07			

Minnesota Unique Well No.

604593

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/23/1999
 Update Date 02/09/2006
 Received Date

Well Name NEAULT, MICHAEL & LINDA Township Range Dir Section Subsections Elevation 1094 ft. 47 17 W 18 BABACB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 36 ft.	Depth Completed 36 ft.	Date Well Completed 03/20/1998
Well Address 2440 139 RD CLOQUET MN 55720		Drilling Method Air Rotary		
Geological Material SAND SILTY SAND COARSE SAND FINE GRAVEL		Color BRN/YEL BROWN BLACK	Hardness SOFT SOFT SOFT	From To 0 17 17 30 30 36
Static Water Level 12 ft. from Land surface Date Measured 03/20/1998		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
REMARKS DRILLING METHOD: DRIVEN/ROTARY/AIR.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address Date 07/06/2005 System UTM - Nad83, Zone15, Meiers X: 534839 Y: 5156599		Nearest Known Source of Contamination 150 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Last Strat Sand & larger-black		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
County Well Index Online Report		Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, C License Business Name Lic. Or Reg. No. Name of Driller		
		604593		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

613358

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 11/23/1999
 Update Date 02/07/2006
 Received Date

<p>Well Name WEETS, DELBERT R. Township Range Dir Section Subsections Elevation 1151 ft. 47 17 W 7 DDDADD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 248 ft. Depth Completed 248 ft. Date Well Completed 07/30/1998</p> <p>Drilling Method Multiple methods used</p>																																										
<p>Well Address 2307 SCHELINDER RD CARLTON MN 55718</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>FINE SAND</td> <td>RED/BRN</td> <td>SOFT</td> <td>0</td> <td>170</td> </tr> <tr> <td>MUDDY SILTY SANDY CLAY</td> <td>BROWN</td> <td>SOFT</td> <td>170</td> <td>205</td> </tr> <tr> <td>SILTY SAND</td> <td>BROWN</td> <td>SOFT</td> <td>205</td> <td>240</td> </tr> <tr> <td>MED SAND</td> <td>BROWN</td> <td>SOFT</td> <td>240</td> <td>248</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	FINE SAND	RED/BRN	SOFT	0	170	MUDDY SILTY SANDY CLAY	BROWN	SOFT	170	205	SILTY SAND	BROWN	SOFT	205	240	MED SAND	BROWN	SOFT	240	248	<p>Drilling Fluid Water</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>6 in. to 245 ft.</td> <td>18.97 lbs./ft.</td> <td>6 in. to 245 ft.</td> </tr> <tr> <td></td> <td></td> <td>4 in. to 248 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>10</td> <td>4.7</td> <td>245 ft. and 248 ft.</td> </tr> </tbody> </table> <p>Static Water Level 70 ft. from Land surface Date Measured 07/30/1998</p> <p>PUMPING LEVEL (below land surface) 240 ft. after 1 hrs. pumping 50 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	6 in. to 245 ft.	18.97 lbs./ft.	6 in. to 245 ft.			4 in. to 248 ft.	Diameter	Slot/Gauze	Length	Set Between	4	10	4.7	245 ft. and 248 ft.
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	MUDDY SILTY SANDY CLAY	BROWN	SOFT	170	205																																						
	SILTY SAND	BROWN	SOFT	205	240																																						
	MED SAND	BROWN	SOFT	240	248																																						
	Casing Diameter	Weight	Hole Diameter																																								
	6 in. to 245 ft.	18.97 lbs./ft.	6 in. to 245 ft.																																								
			4 in. to 248 ft.																																								
	Diameter	Slot/Gauze	Length	Set Between																																							
4	10	4.7	245 ft. and 248 ft.																																								
<p>REMARKS DRILLING METHOD: DRIVEN/ROTARY/AIR.</p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Date 07/06/2005</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 536040 Y: 5156778</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 55 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																										
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, C License Business Name Lic. Or Reg. No. Name of Driller</p>																																										
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">613358</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/25/2008 HE-01205-07</p>																																										

Minnesota Unique Well No.

617945

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 07/20/1999
 Update Date 02/06/2006
 Received Date

Well Name OSWELL, CLYDE Township Range Dir Section Subsections Elevation 1112 ft. 47 17 W 7 ACDCCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 45 ft. Depth Completed 45 ft. Date Well Completed 01/28/1999
		Drilling Method Non-specified Rotary
		Drilling Fluid Water Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Domestic
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
		Casing Diameter 6 in. to 42 ft. Weight 18.97 lbs./ft. Hole Diameter 6 in. to 42.5 ft. 4 in. to 45 ft.
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
		Diameter 4 Slot/Gauze 12 Length 4.5 Set Between 42.5 ft. and 45 ft.
Well Address 2800 5 CR S CARLTON MN 55718		
Geological Material SAND	Color BROWN Hardness SFT-MED From 0 To 45	
		Static Water Level 20 ft. from Land surface Date Measured 01/28/1999
		PUMPING LEVEL (below land surface) 40 ft. after 1 hrs. pumping 30 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 07/06/2005 System UTM - Nad83, Zone15, Meters X: 535390 Y: 5157475		Nearest Known Source of Contamination 150 feet ES direction Septic tank/drain field_type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name GRUNDFOS Model number IIP 0.5 Volts 220 Length of drop Pipe 40 ft. Capacity 12 g.p.m. Type Submersible Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
First Bedrock Last Strat Sand-brown		Well Contractor Certification Sunnarborg Well Co. 09437 SUNNARBORG, H License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		617945 Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.

691411

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/18/2004
 Update Date 02/07/2006
 Received Date 07/09/2004

Well Name HATTENBERGER, JOHN Township Range Dir Section Subsections Elevation 1112 ft. 47 17 W 7 DCBDAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 46 ft. Depth Completed 46 ft. Date Well Completed 06/18/2004
Well Address 2860 5 CR CARLTON MN 55718		Drilling Method Non-specified Rotary
Geological Material TOP SOIL SAND CLAY SAND		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
Color BLACK BROWN BROWN BROWN		Use Domestic
Hardness SOFT MEDIUM MEDIUM MEDIUM		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
From 0 1 31 36		Casing Diameter 6 in. to 41 ft. Weight 19 lbs./ft. Hole Diameter 6 in. to 41 ft.
To 1 31 36 46		Open Hole from ft. to ft.
Screen YES		Make JOHNSON Type stainless steel
Diameter 5 Slot/Gauze 12 Length 5.5 Set Between 41 ft. and 46 ft.		Static Water Level 25 ft. from Land surface Date Measured 06/18/2004
PUMPING LEVEL (below land surface) 40 ft. after 2 hrs. pumping 11 g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address Date 07/06/2005 System UTM - Nad83, Zone15, Meters X: 535353 Y: 5156970		Nearest Known Source of Contamination 105 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Last Strat Sand-brown		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
County Well Index Online Report		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Well Contractor Certification Lakehead Well 09199 KENT, B. License Business Name Lic. Or Reg. No. Name of Driller		Printed 6/25/2008 HF-01205-07

Minnesota Unique Well No.

693484

County Carlton
 Quad Atkinson
 Quad ID 225D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 03/22/2005
 Update Date 02/09/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name GROVER, TARA		Well Depth 248 ft.	Depth Completed 248 ft.	Date Well Completed 05/08/2003	
Township Range Dir Section Subsections Elevation 47 17 W 18 AAAABA Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary			
Well Address 2302 SCHELINDER RD CARLTON MN 55718 Geological Material Color Hardness From To SANDY CLAY BROWN 0 236 SAND BROWN MEDIUM 236 248		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No Above/Below ft.	
		Casing Diameter 4 in. to 240 ft.	Weight lbs.ft.	Hole Diameter 8.75 in. to 248 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make JOHNSON Type stainless steel			
		Diameter 2	Slot/Gauze 12	Length 8	Set Between 240 ft. and 248 ft.
		Static Water Level 40 ft. from Land surface Date Measured 05/08/2003			
		PUMPING LEVEL (below land surface) 150 ft. after 1 hrs. pumping 20 g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS Located Minnesota Geological Survey Unique Number Verification Tag on well System UTM - Nad83, Zone15, Meters X: 535988 Y: 5156659		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 30 ft.			
		Nearest Known Source of Contamination 50 feet direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed 0 Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Well Contractor Certification North Star Drilling 49588 NELSON, S. License Business Name Lic. Or Reg. No. Name of Driller			
Last Strat Sand-brown	Depth to Bedrock ft.				
County Well Index Online Report		693484		Printed 6/25/2008 HE-01205-07	

SITE SUMMARY

Site Name: Breckenridge

Fire Department: Breckenridge Fire Department
420 Nebraska Avenue
Breckenridge, MN 56520

Site Contact: Brad Wall, Assistant Fire Chief
218-643-6910

Training Location: 1312 Minnesota Avenue, Breckenridge

Type of foam used in training: AFFF: brand not specified
Class A: brand not specified

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Storm sewer

Annual foam use: AFFF: 5 gallons
Class A: 5 gallons

Nearest surface water: Ottetail River located approximately 3/4 to 1 mile east

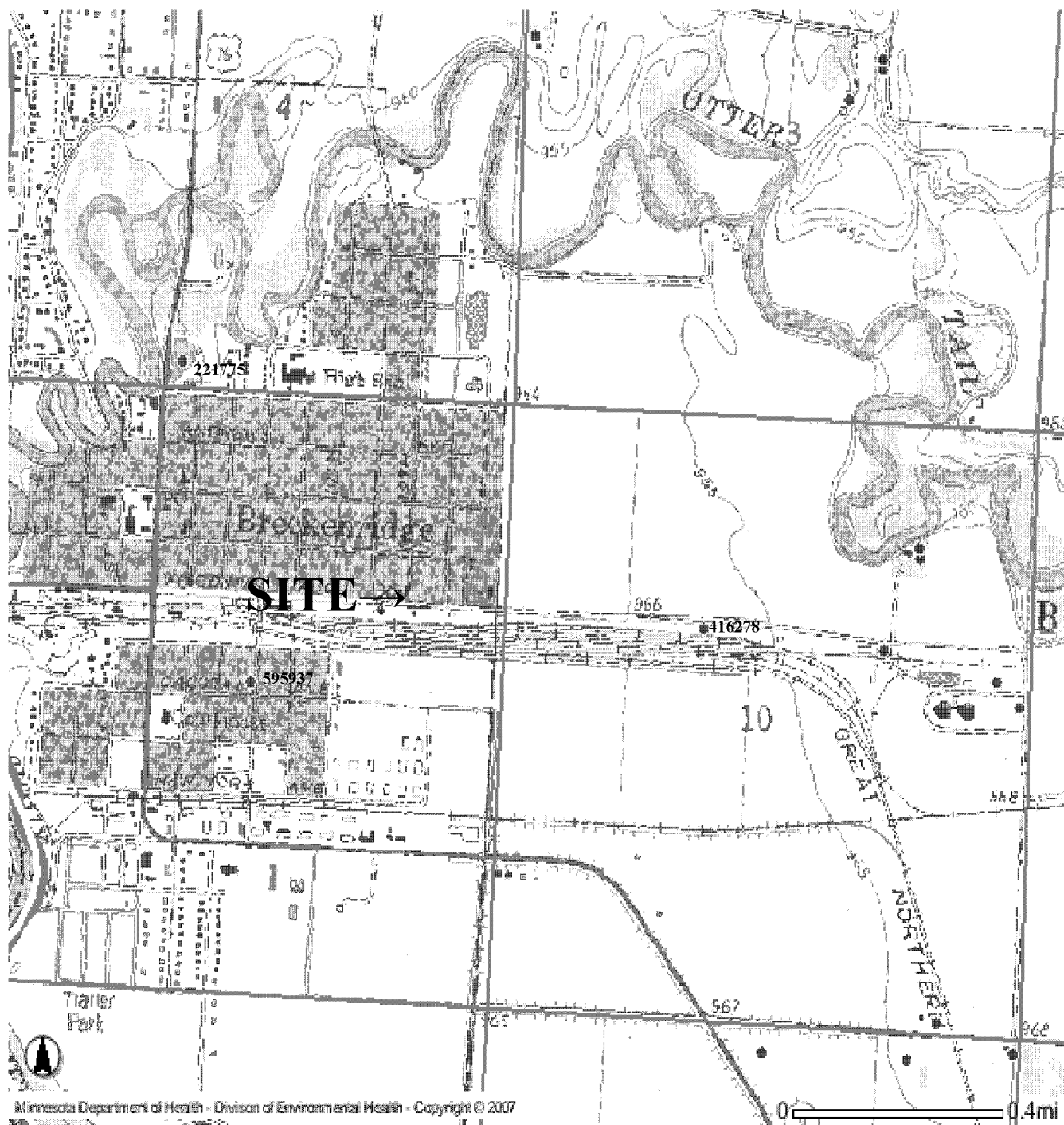
Nearest wetland: Approximately 1 mile east

Nearest water well: Approximately 1/3 mile southwest

Nearest Wellhead Protection Area: None within 1 mile

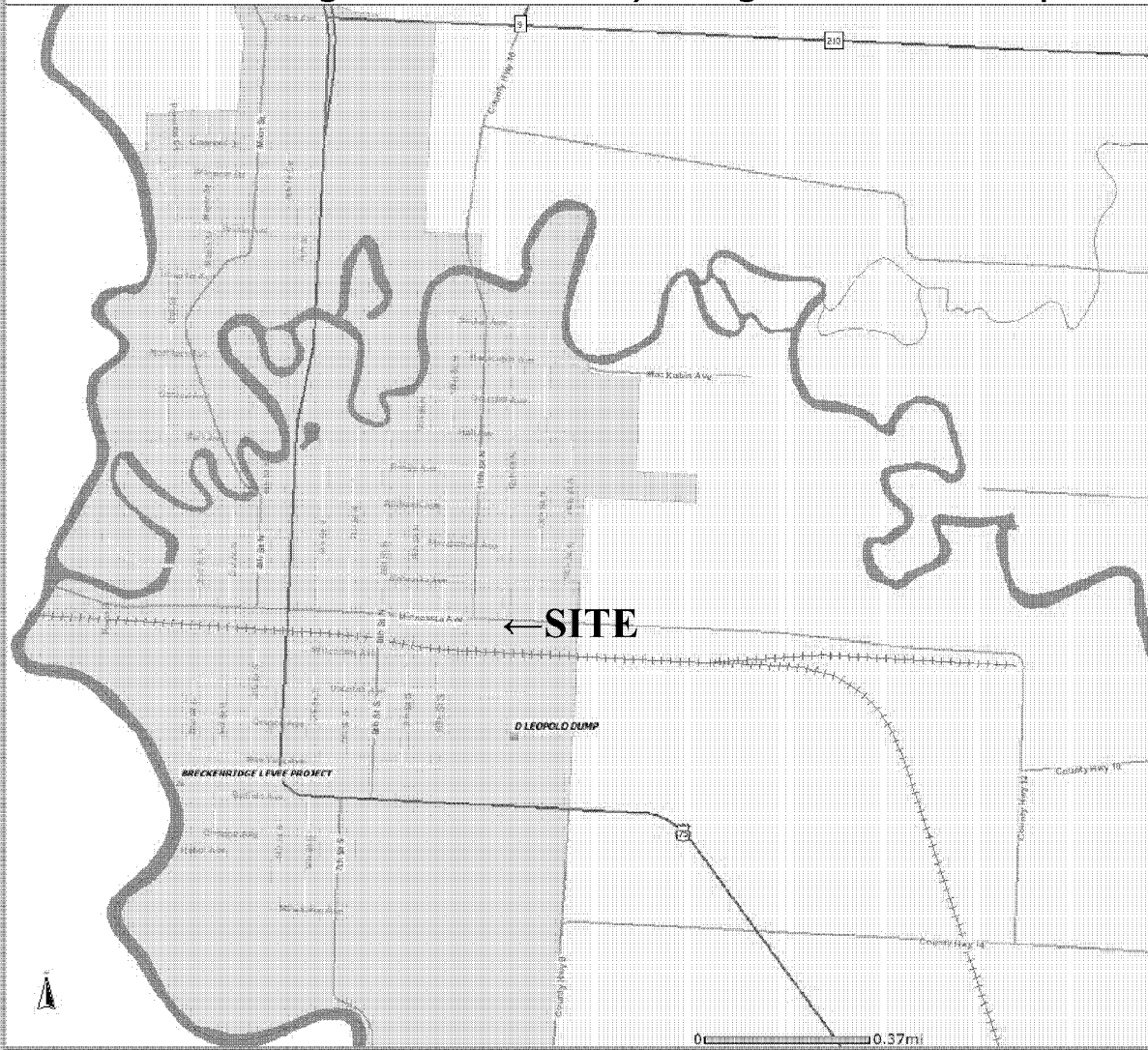
SITE RANKING: 15

BRECKENRIDGE CWI Well Map



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Breckenridge What's In My Neighborhood Map

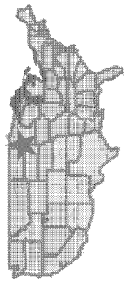
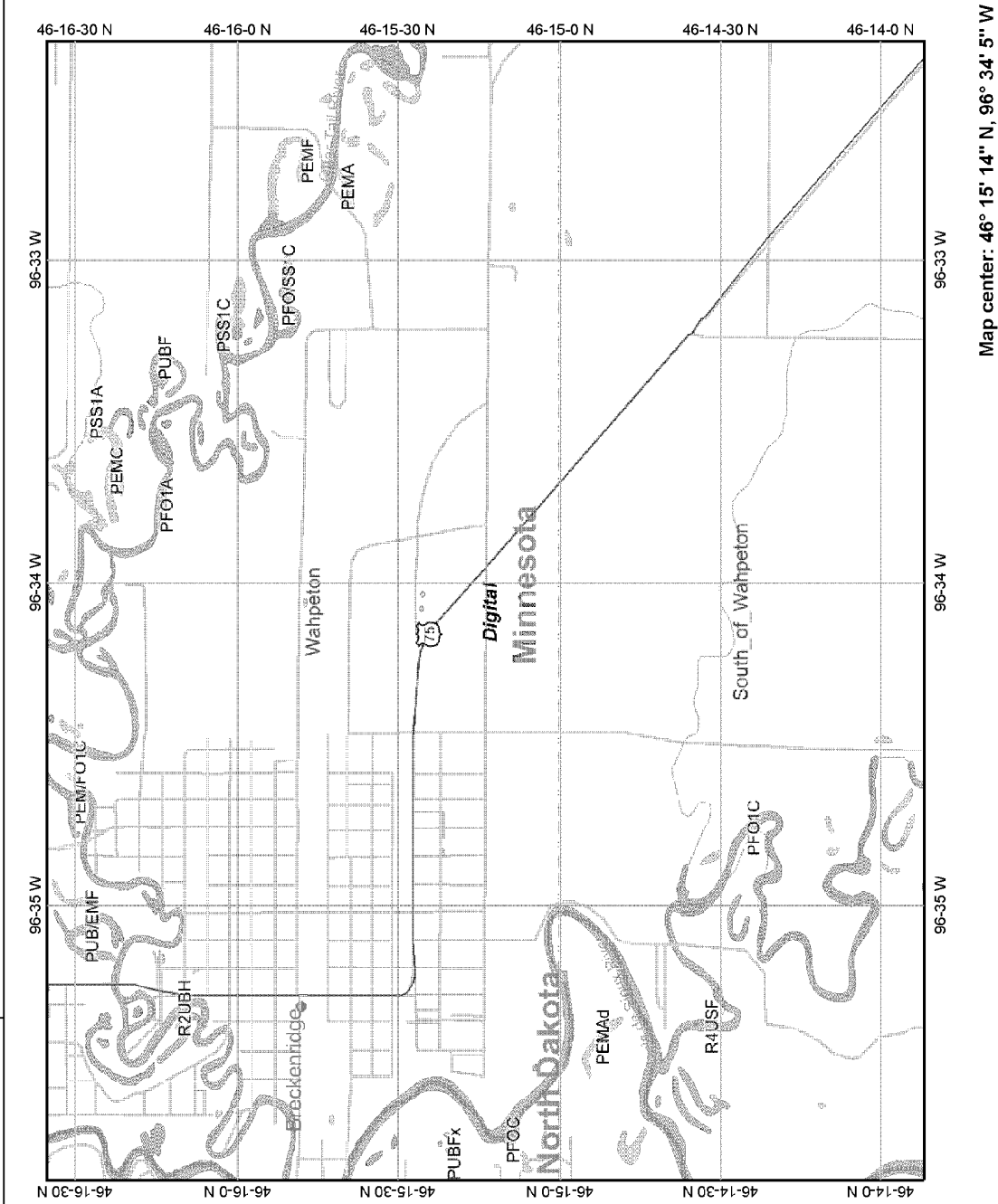


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 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Breckenridge Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:35,317

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

221775

County Wilkin
 Quad Wahpeton
 Quad ID 221D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/17/1988
 Update Date 09/02/2004
 Received Date

Minnesota Statutes Chapter 103I

Well Name BRECKENRIDGE TW-1		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		450 ft.	450 ft.	08/28/1976
132	47 W 4 CDDCBC	Elevation Method topographic map (+/- 5 feet)		
Drilling Method --		Drilling Fluid --		
Well Address		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
MN		From Ft. to Ft.		
Geological Material		Use Test well		
TOP SOIL	Color BLACK	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
CLAY	Color YELLOW	Casing Diameter Weight Hole Diameter		
CLAY	Color GRY/BLU	Open Hole from ft. to ft.		
SANDY CLAY + DIRTY SAND LENSES	Color GRAY	Screen NO Make Type		
DIRTY SAND TOOK SOME WATER	Color GRAY	Diameter Slot/Gauze Length Set Between		
SANDY CLAY + DIRTY SAND LENSES	Color GRAY	Static Water Level		
LENSES OF CLEAN AND DIRTY SAND	Color GRAY	ft. from Date Measured		
LENSES OF VERY DIRTY SAND	Color SILVER	PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey	Method Digitized - scale 1:24,000 or larger (Digitizing Table)	Nearest Known Source of Contamination		
Unique Number	Date N/A	_feet _direction _type		
Verification Information from owner		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 223547 Y: 5130187		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Cretaceous,Undiff.	Aquifer	Ltp Enterprises 91353		
Last Strat Cretaceous,Undiff.	Depth to Bedrock 400 ft.	License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		221775		Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

416278

County Wilkin
 Quad Wahpeton
 Quad ID 221D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/08/1991
 Update Date 09/02/2004
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name RED RIVER VALLY RR</p> <p>Township Range Dir Section Subsections Elevation 965 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>132 47 W 10 BDACBD Elevation Method</p>	<p>Well Depth 225 ft. Depth Completed 225 ft. Date Well Completed 02/01/1990</p> <p>Drilling Method Non-specified Rotary</p>																																							
<p>Well Address</p> <p>BRECKINRIDGE MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK SOFT</td> <td>0</td> <td>1</td> </tr> <tr> <td>CLAY</td> <td>YELLOW SOFT</td> <td>1</td> <td>18</td> </tr> <tr> <td>CLAY</td> <td>BLUE MEDIUM</td> <td>18</td> <td>200</td> </tr> <tr> <td>CLAY</td> <td>BLUE MEDIUM</td> <td>200</td> <td>221</td> </tr> <tr> <td>SABD LENS</td> <td>GRAY MEDIUM</td> <td>221</td> <td>225</td> </tr> </tbody> </table>	Color	Hardness	From	To	TOP SOIL	BLACK SOFT	0	1	CLAY	YELLOW SOFT	1	18	CLAY	BLUE MEDIUM	18	200	CLAY	BLUE MEDIUM	200	221	SABD LENS	GRAY MEDIUM	221	225	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>0 in. to 221 ft.</td> <td>lbs.ft.</td> <td>6.25 in. to 225 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen YES</th> <th>Make JOHNSON</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length Set Between</td> </tr> <tr> <td>3</td> <td>15</td> <td>4 221 ft. and 225 ft.</td> </tr> </tbody> </table> <p>Static Water Level 35 ft. from Land surface Date Measured 02/10/1990</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer MONITOR Model 6PS</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</p> <p><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	0 in. to 221 ft.	lbs.ft.	6.25 in. to 225 ft.	Screen YES	Make JOHNSON	Type	Diameter	Slot/Gauze	Length Set Between	3	15	4 221 ft. and 225 ft.
	Color	Hardness	From	To																																				
	TOP SOIL	BLACK SOFT	0	1																																				
	CLAY	YELLOW SOFT	1	18																																				
	CLAY	BLUE MEDIUM	18	200																																				
	CLAY	BLUE MEDIUM	200	221																																				
	SABD LENS	GRAY MEDIUM	221	225																																				
	Casing Diameter	Weight	Hole Diameter																																					
	0 in. to 221 ft.	lbs.ft.	6.25 in. to 225 ft.																																					
	Screen YES	Make JOHNSON	Type																																					
Diameter	Slot/Gauze	Length Set Between																																						
3	15	4 221 ft. and 225 ft.																																						
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number</p> <p>Verification Other, note in remarks Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 225133 Y: 5129473</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 20 to 210 ft. 1 yds.</p> <p>Grout Material: Cuttings from 210 to 226 ft. 0.3 yds.</p>																																							
	<p>Nearest Known Source of Contamination 250 feet W direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																							
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 02/12/1990 Manufacturer's name GOULDS Model number 7EH05412 HP 0.5 Volts 230 Length of drop Pipe 210 ft. Capacity 7 g.p.m. Type Submersible Material Plastic</p>																																							
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																							
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																							
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Well Contractor Certification Falk Bros Well Co. 91204 FALK, J. License Business Name Lic. Or Reg. No. Name of Driller</p>																																							
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">416278</p> <p style="text-align: right;">Printed 6/26/2008 HE-01205-07</p>																																							

Minnesota Unique Well No.

595937

County Wilkin
 Quad Wahpeton
 Quad ID 221D

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 06/04/2004
 Update Date 11/26/2007
 Received Date

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		87 ft.	85 ft.	10/23/2003
132	47 W 9	Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		
Well Address		Drilling Method Non-specified Rotary		
704 DAKOTA AV BRECKENRIDGE MN		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Geological Material		From Ft. to Ft.		
TOPSOIL	Color BLACK	Hardness SOFT	From 0	To 1
CLAY	Color YELLOW	Hardness SOFT	1	17
CLAY	Color BLUE	Hardness MEDIUM	17	55
SAND LENS	Color GRAY	Hardness MEDIUM	55	85
Static Water Level		Use Irrigation		
12 ft. from Land surface		Date Measured 10/23/2003		
PUMPING LEVEL (below land surface)		Casing Type Plastic Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes		
ft. after hrs. pumping g.p.m.		<input type="checkbox"/> No Above/Below ft.		
Well Head Completion		Casing Diameter Weight Hole Diameter		
Pitless adapter manufacturer Model		4 in. to 80 ft. lbs./ft. 6.75 in. to 87 ft.		
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		Open Hole from ft. to ft.		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Screen YES Make JOHNSON Type stainless steel		
Grouting Information		Diameter Slot/Gauze Length Set Between		
Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3 12 5 80 ft. and 85 ft.		
Grout Material: Bentonite from 0 to 50 ft. 5 bags		Nearest Known Source of Contamination		
0 feet _direction _type		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input type="checkbox"/> Not Installed Date Installed 10/30/2003		Manufacturer's name GOULDS Model number 25 EL 05412		
HP 1 Volts 230		Length of drop Pipe 50 ft. Capacity 25 g.p.m.		
Type Submersible Material		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No		
REMARKS				
DEVELOPED WITH AIR 100 GPM				
Located Minnesota Department of Health		Method GPS SA Off (averaged)		
Unique Number Verification N/A		Date 12/09/2003		
System UTM - Nad83, Zone15, Meters		X: 223754 Y: 5129332		

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification Falk Bros Well Co. 91204 FALK,N License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		595937 Printed 6/26/2008 HE-01205-07

SITE SUMMARY

Site Name: Buffalo Lake

Fire Department: Buffalo Lake Fire Department
212 Central Avenue NE
Buffalo Lake, MN 55313

Site Contact: Gayle Deal, Fire Chief
320-833-2374
blfdfirechief@hotmail.com

Training Location: 315 N. Main Street, near intersection of Main and Church Streets, Buffalo Lake

Type of foam used in training: AFFF: 3M Light Water
Class A: Angus Hi-Combat

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: AFFF: Less than 5 gallons
Class A: 5 to 10 gallons

Nearest surface water: Ottertail River located approximately 3/4 to 1 mile east

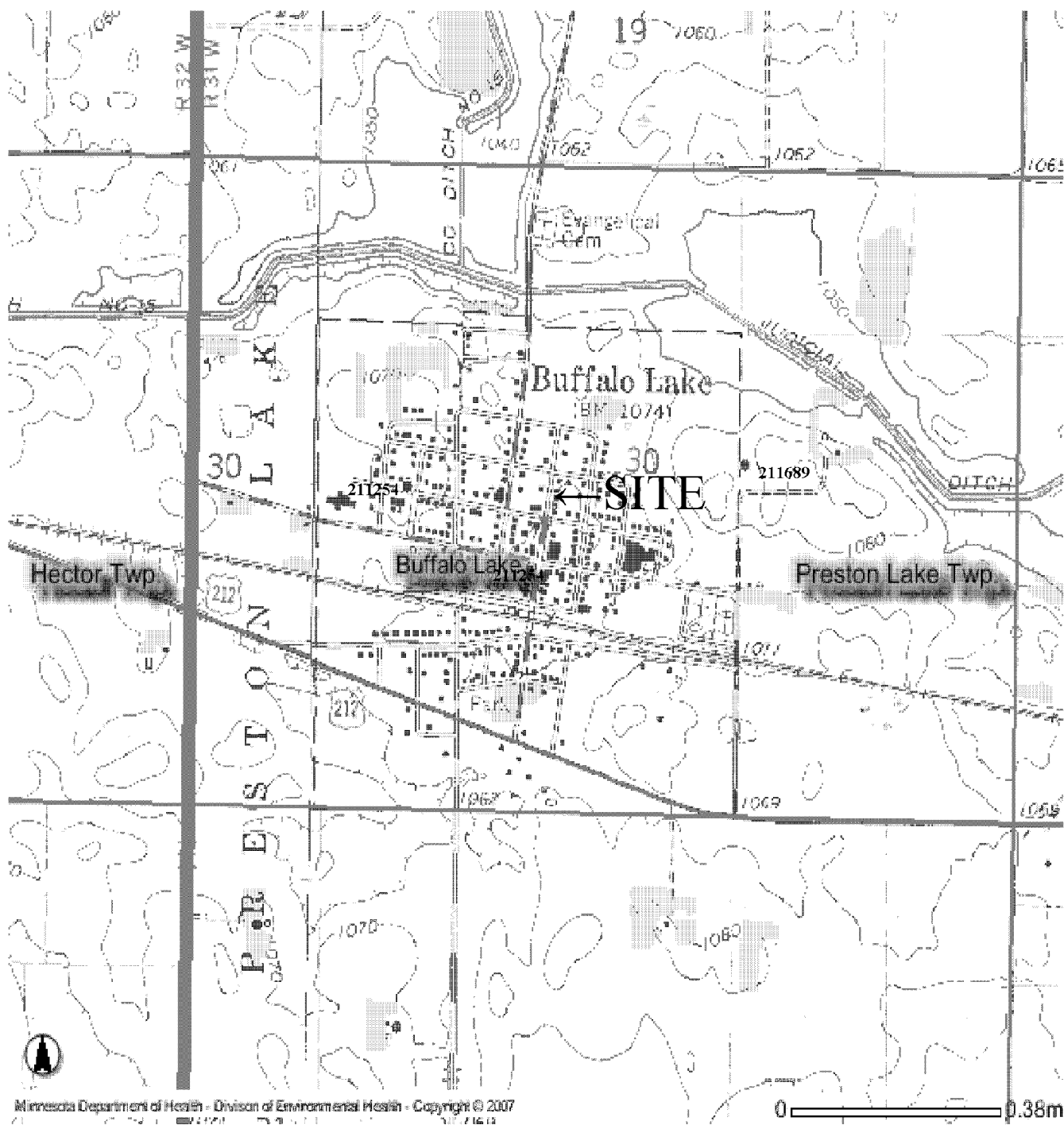
Nearest wetland: Approximately 1 mile east

Nearest water well: Approximately 1/3 mile southwest

Nearest Wellhead Protection Area: None within 1 mile

SITE RANKING: 13

BUFFALO LAKE CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

0 0.38m

Buffalo Lake MPCA Map

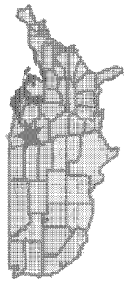
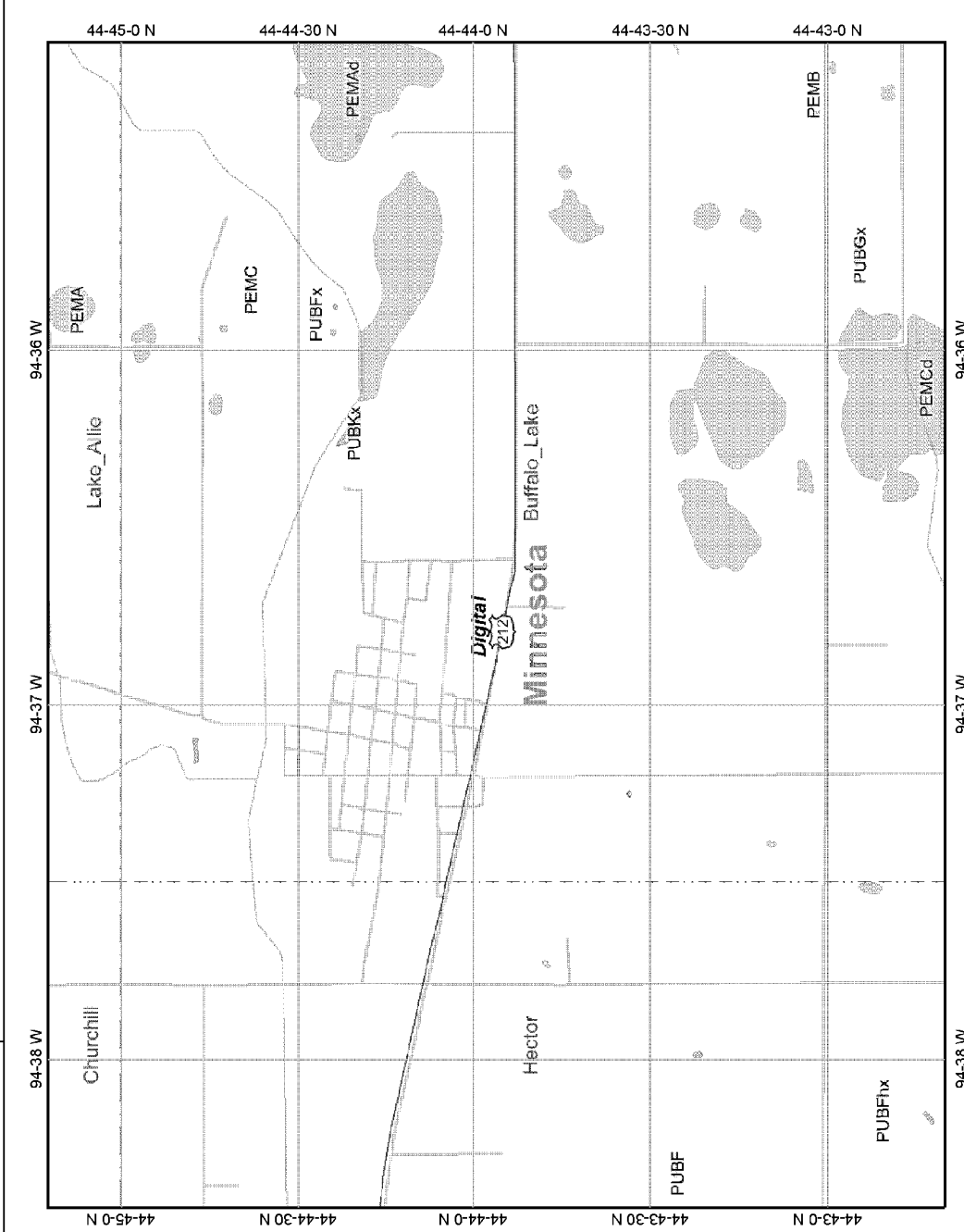


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Buffalo Lake



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:32,921

Map center: 44° 43' 56" N, 94° 36' 46" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

211689

County Renville
 Quad Buffalo Lake
 Quad ID 94A

Entry Date 04/17/1988
 Update Date 04/22/1997
 Received Date

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Well Name SCHAMIER, ELMER Township Range Dir Section Subsections Elevation 1065 ft. 115 31 W 30 ACCCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 112 ft. Depth Completed 108 ft. Date Well Completed 08/13/1969 Drilling Method --
Well Address BUFFALO LAKE MN 55314		Drilling Fluid -- Use Domestic <input type="checkbox"/> Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material CLAY YELLOW CLAY BLUE SANDY BLUE CLAY SANDY BLUE SANDY BLUE CLAY SAND BLUE		Casing Type Steel (black or low carbon) <input type="checkbox"/> Joint No Information <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.
Hardness V.SOFT		Casing Diameter 4 in. to 104 ft. Weight lbs./ft. Hole Diameter
Color YELLOW BLUE BLUE BLUE BLUE BLUE		Open Hole from ft. to ft. Screen YES <input type="checkbox"/> Make Type stainless steel
From 0 19 62 72 105 112		Diameter 4 Slot/Gauze 18 Length 4 Set Between 104 ft. and 108 ft.
To 19 62 72 105 112 112		Static Water Level 24 ft. from Land surface Date Measured 08/13/1969 PUMPING LEVEL (below land surface) 28 ft. after hrs. pumping 100 g.p.m.
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone15, Meters		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Method Digitized - scale 1:24,000 or larger (Digitizing Table) Date N/A X: 372565 Y: 4955255		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
NO REMARKS		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No

<p>Pump <input type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP 0 _____ Volts _____</p> <p>Length of drop Pipe _____ ft. Capacity _____ g.p.m. Type _____ Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p>Fredericksons Inc. _____ 43099 _____ NASS, R. _____</p> <p>License Business Name Lic. Or Reg. No. Name of Driller _____</p>	
<p>211689</p>	
<p>Printed 6/26/2008 HE-01205-07</p>	

First Bedrock _____

Last Strat Clay & sand-gray _____

Aquifer Quat. Buried Artes. Aquifer _____

Depth to Bedrock _____ ft.

County Well Index Online Report

SITE SUMMARY

Site Name: Burnsville

Fire Department: Burnsville Fire Department
100 Civic Center Parkway
Burnsville, MN 55337

Site Contact: Dan Hove, Assistant Fire Chief
952-895-4572
dan.hove@ci.burnsville.mn.us

Training Location: Training facility jointly owned by Burnsville, Apple Valley and Eagan, located at intersection of Cliff Road and River Ridge Boulevard, Burnsville

Type of foam used in training: AR-AFFF: Ansul ATC 3/6
Class A: Silv-ex
Training Foam: Ansul (historic use)

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: 60 gallons
Class A: 140 gallons
Training Foam: 55 gallons (historic use)

Nearest surface water: An unnamed (intermittent) stream less than 1/4 mile east

Nearest wetland: Less than 1/4 mile west-northwest

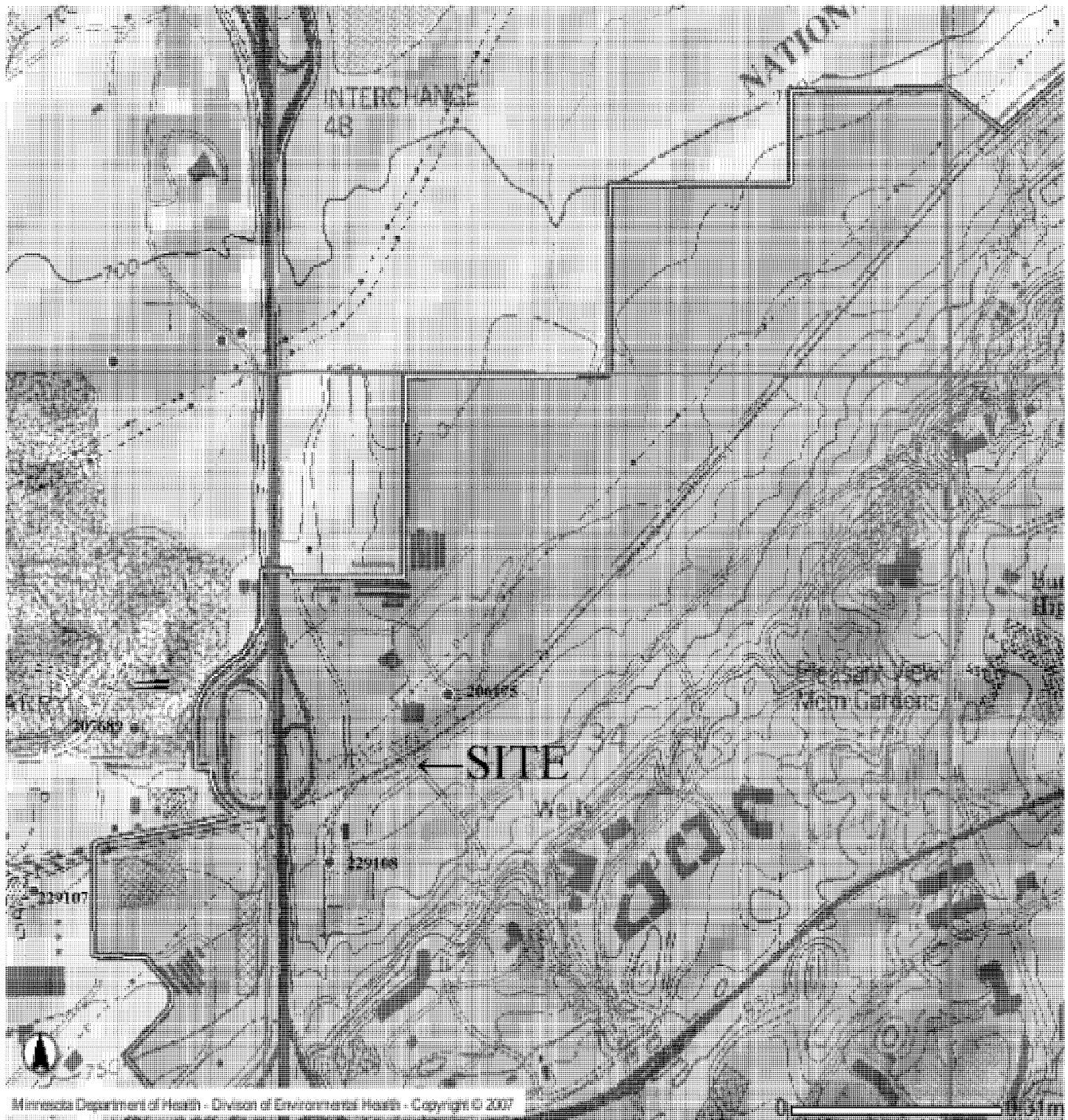
Karst Area: Site appears to be located in small area of active karst in the northwest corner of Dakota County

Nearest water well: Less than 1/4 mile to the north-northeast and to the southwest

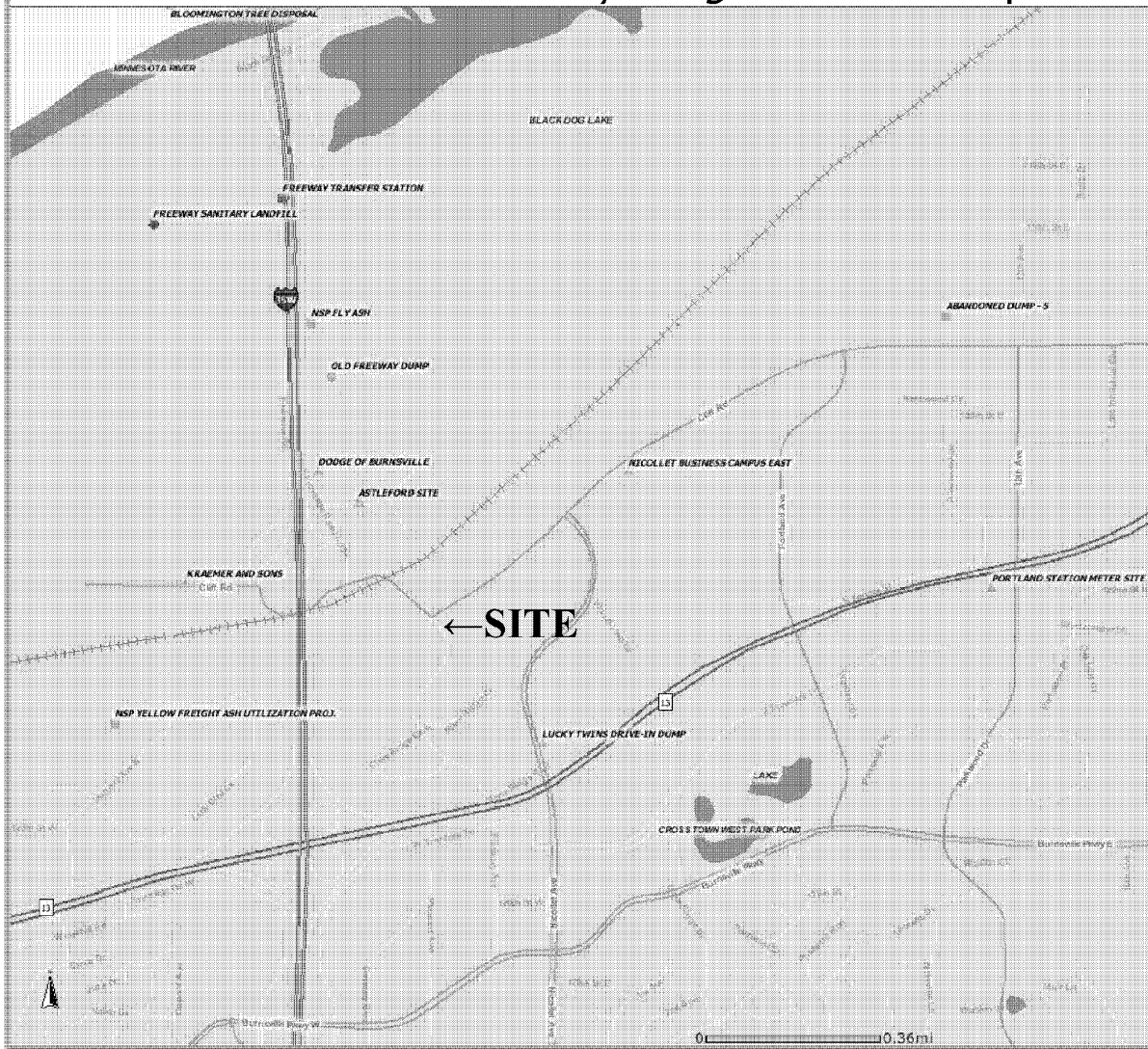
Nearest Wellhead Protection Area: Training site located within Wellhead Protection Area

SITE RANKING: 23

BURNSVILLE CWI Well Map



Burnsville What's In My Neighborhood Map

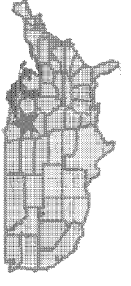
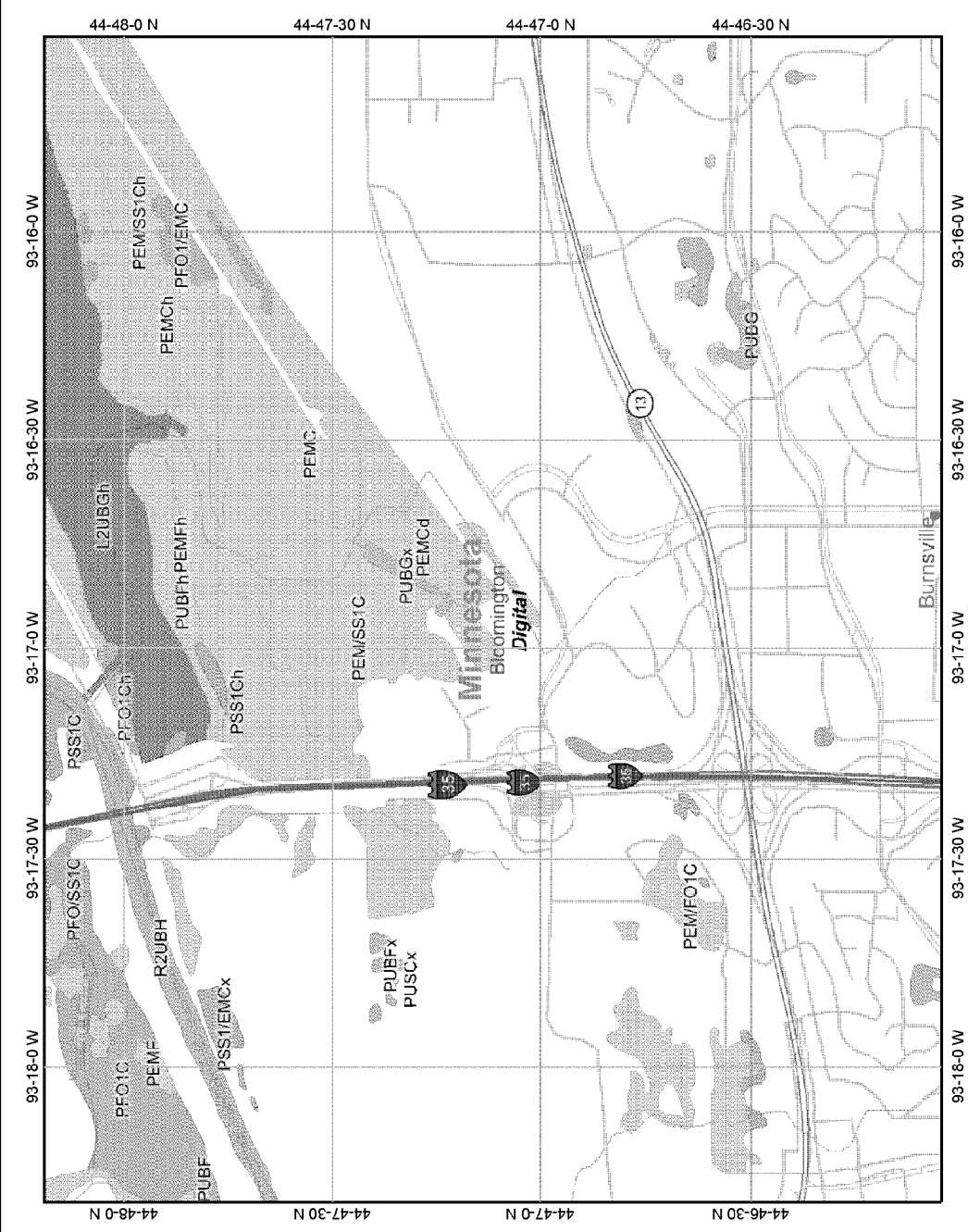


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 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Burnsville Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,893

Map center: 44° 47' 7" N, 93° 16' 56" W

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Minnesota Unique Well No.

206175

County: Dakota
 Quad: Bloomington
 Quad ID: 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date: 10/19/1990
 Update Date: 06/22/2001
 Received Date:

Well Name BURNSVILLE Township Range Dir Section Subsections Elevation 725 ft. 27 24 W 34 BDC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 220 ft. Depth Completed 220 ft. Date Well Completed 12/20/1963	Drilling Method --																
Well Address 12111 RIVER RIDGE BL BURNSVILLE MN Geological Material FILL SHAKOPEE-ONEOTA DOLOMITE JORDAN SANDSTONE <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>0</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>12</td> <td>168</td> </tr> <tr> <td></td> <td></td> <td>168</td> <td>220</td> </tr> </tbody> </table>		Color	Hardness	From	To			0	12			12	168			168	220	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Color	Hardness	From	To														
				0	12														
				12	168														
				168	220														
		Use Abandoned Status Inactive																	
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																	
		Casing Diameter 6 in. to 180 ft. Weight lbs./ft. Hole Diameter 6 in. to 180 ft. lbs./ft.																	
		Open Hole from ft. to ft.																	
		<table border="1"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Screen NO	Make	Type													
Screen NO	Make	Type																	
<table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Diameter	Slot/Gauze	Length	Set Between														
Diameter	Slot/Gauze	Length	Set Between																
Static Water Level ft. from Date Measured																			
PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 200 g.p.m.																			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																			
REMARKS ABANDONED OPEN HOLE ARTESIAN FLOW OPEN HOLE CASING: 010 TO 0012;006 TO 0180. Located United States Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 477578 Y: 4959030		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																			
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																			
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																			
Well Contractor Certification Tri-state Well Co. 27118 License Business Name Lic. Or Reg. No. Name of Driller																			
First Bedrock Prairie Du Chien Group Aquifer Jordan Last Strat Jordan Depth to Bedrock 12 ft.		County Well Index Online Report																	
		206175	Printed 6/26/2008 HE-01205-07																

Minnesota Unique Well No.

207689

County Dakota
 Quad Bloomington
 Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 10/19/1990
 Update Date 08/14/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name ED KRFAMER		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		240 ft.	240 ft.	07/30/1974
27	24 W 33 ADCCBC	Elevation Method 722 ft. 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Commercial		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		4 in. to 196 ft.	lbs./ft.	
		Open Hole from ft. to ft.		
		Screen Make Type		
		Diameter	Slot/Gauze	Length Set Between
Well Address 1000 122 ST W BURNSVILLE MN				
Geological Material		Color	Hardness	From To
GRAVEL				0 79
LIMESTONE				79 158
SANDSTONE				158 240
		Static Water Level 20 ft. from Land surface Date Measured 07/30/1974		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number Verification N/A		Date N/A		
System UTM - Nad83, Zone15, Meters		X: 476832 Y: 4958959		
		Nearest Known Source of Contamination _feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Prairie Du Chien Group		Aquifer Jordan		
Last Strat Jordan		Depth to Bedrock 79 ft.		
License Business Name		Lic. Or Reg. No.		Name of Driller
County Well Index Online Report		207689		Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

229107

County Dakota
 Quad Bloomington
 Quad ID 104D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 05/20/1991
 Update Date 08/14/1991
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name LEHIGH PORTLAND CEMENT C</p> <p>Township Range Dir Section Subsections Elevation 729 ft.</p> <p>27 24 W 33 DBDBCD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 225 ft.</p> <p>Depth Completed 225 ft.</p> <p>Date Well Completed 196309</p> <p>Drilling Method --</p>																																											
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>PEAT</td> <td></td> <td></td> <td>0</td> <td>9</td> </tr> <tr> <td>LIMESTONE-SHAKOPEE DOLOMITE</td> <td></td> <td></td> <td>9</td> <td>170</td> </tr> <tr> <td>SANDSTONE-JORDAN</td> <td></td> <td></td> <td>170</td> <td>225</td> </tr> </tbody> </table>		Color	Hardness	From	To	PEAT			0	9	LIMESTONE-SHAKOPEE DOLOMITE			9	170	SANDSTONE-JORDAN			170	225	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Industrial</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Casing Diameter</th> <th style="width:33%;">Weight</th> <th style="width:33%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>10 in. to 22 ft.</td> <td>lbs./ft.</td> <td></td> </tr> <tr> <td>6 in. to 185 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from 185 ft. to 225 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Screen NO</th> <th style="width:20%;">Make</th> <th style="width:20%;">Type</th> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:20%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level -8 ft. from Land surface Date Measured 196309</p> <p>PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 100 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	10 in. to 22 ft.	lbs./ft.		6 in. to 185 ft.	lbs./ft.		Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
		Color	Hardness	From	To																																							
	PEAT			0	9																																							
	LIMESTONE-SHAKOPEE DOLOMITE			9	170																																							
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	6 in. to 185 ft.	lbs./ft.																																										
	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																																					
<p>REMARKS CASING: 10 TO 22; 6 TO 185. FLOWING WELL.</p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification N/A Date 08/30/2004</p> <p>System UTM - Nad83, Zone15, Meters X: 476592 Y: 4958620</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																											
<p>First Bedrock Prairie Du Chien Group Aquifer Jordan</p> <p>Last Strat Jordan Depth to Bedrock 9 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Aamol Well Co.</u> <u>27062</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																											
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">229107</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/26/2008 HE-01205-07</p>																																											

Minnesota Unique Well No.

229108

County Dakota
 Quad Bloomington
 Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/20/1991
 Update Date 03/08/2007
 Received Date

Well Name NORTHWESTERN STATES CEMENT CO. Township Range Dir Section Subsections Elevation 743 ft. 27 24 W 34 CBCABA Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 270 ft.	Depth Completed 270 ft.	Date Well Completed 10/04/1963	
Drilling Method --				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Industrial				Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			
Well Address BURNSVILLE MN				Casing Diameter 20 in. to 29 ft. lbs./ft. 12 in. to 194 ft. lbs./ft.	Weight lbs./ft.	Hole Diameter	
Geological Material				Open Hole from 194 ft. to 270 ft.			
Color Hardness From To GLACIAL DRIFT 0 27 SHAKOPEE-ONEOTA DOLOMITE 27 179 JORDAN SANDSTONE 179 270				Screen NO Make Type Diameter Slot/Gauze Length Set Between			
Static Water Level -1 ft. from Land surface Date Measured 10/04/1963				PUMPING LEVEL (below land surface) 14 ft. after hrs. pumping 360 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to ft.			
REMARKS WELL FLOWS DON'T KNOW HOW HIGH ABOVE GROUND LEVEL. LINER PIPE GROUTED WITH PURE CEMENT.				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 08/30/2004 System UTM - Nad83, Zone15, Meters X: 477296 Y: 4958679				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
First Bedrock Prairie Du Chien Group Aquifer Jordan Last Strat Jordan Depth to Bedrock 27 ft.				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification Tri-state Well Co. 27118 BENEKE, R. License Business Name Lic. Or Reg. No. Name of Driller				229108			
				Printed 6/26/2008 HE-01205-07			

SITE SUMMARY

Site Name: Buyck

Fire Department: Buyck Volunteer Fire Department
8035 Orr-Buyck Road
Buyck, MN 55771

Site Contact: Not provided

Training Location: 8035 Orr-Buyck Road, Buyck

Type of foam used in training: Not specified

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified

Nearest surface water: An unnamed stream between 1/4 and 1/3 mile east

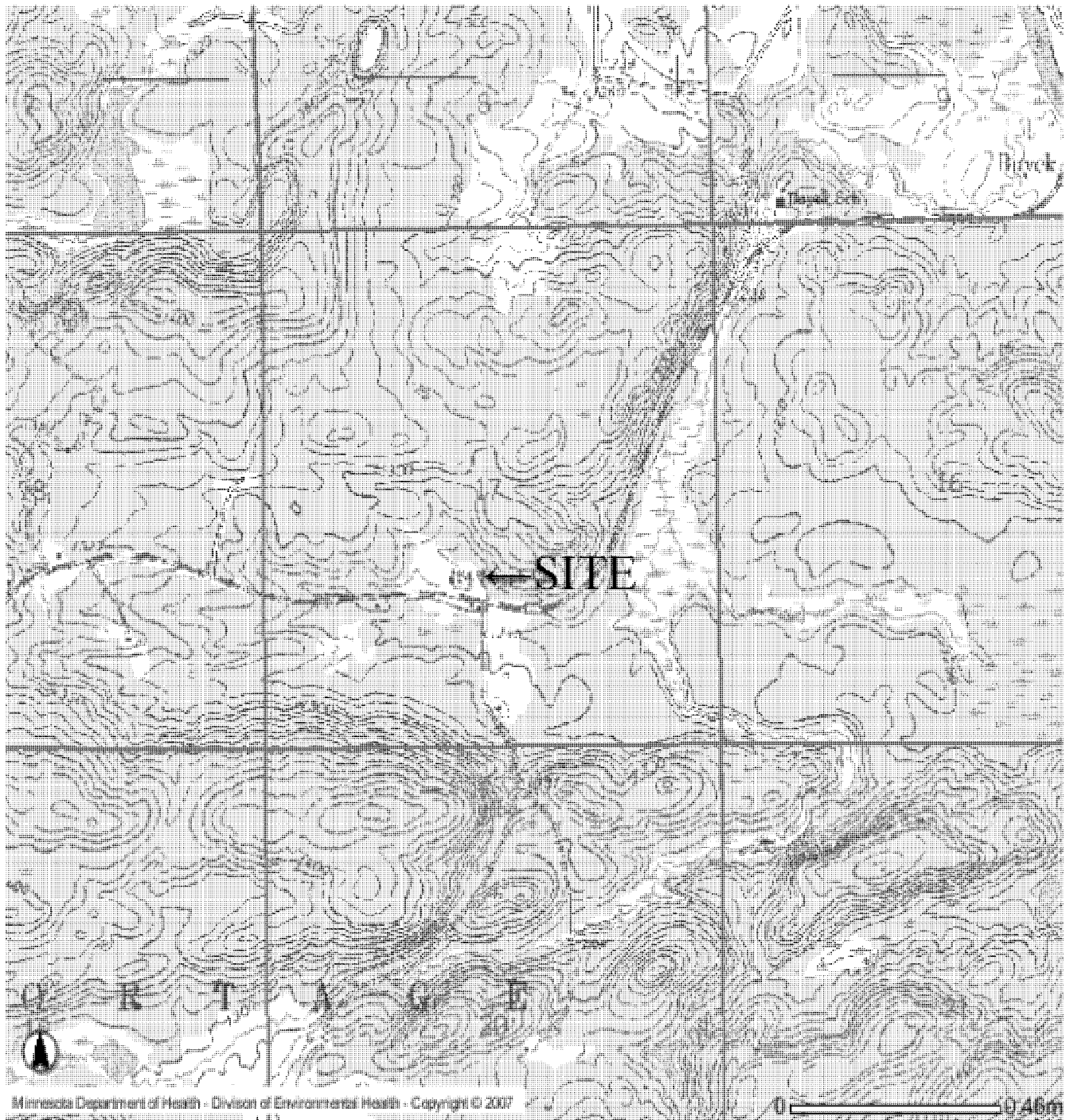
Nearest wetland: Less than 1/8 mile south

Nearest water well: More than 1 mile

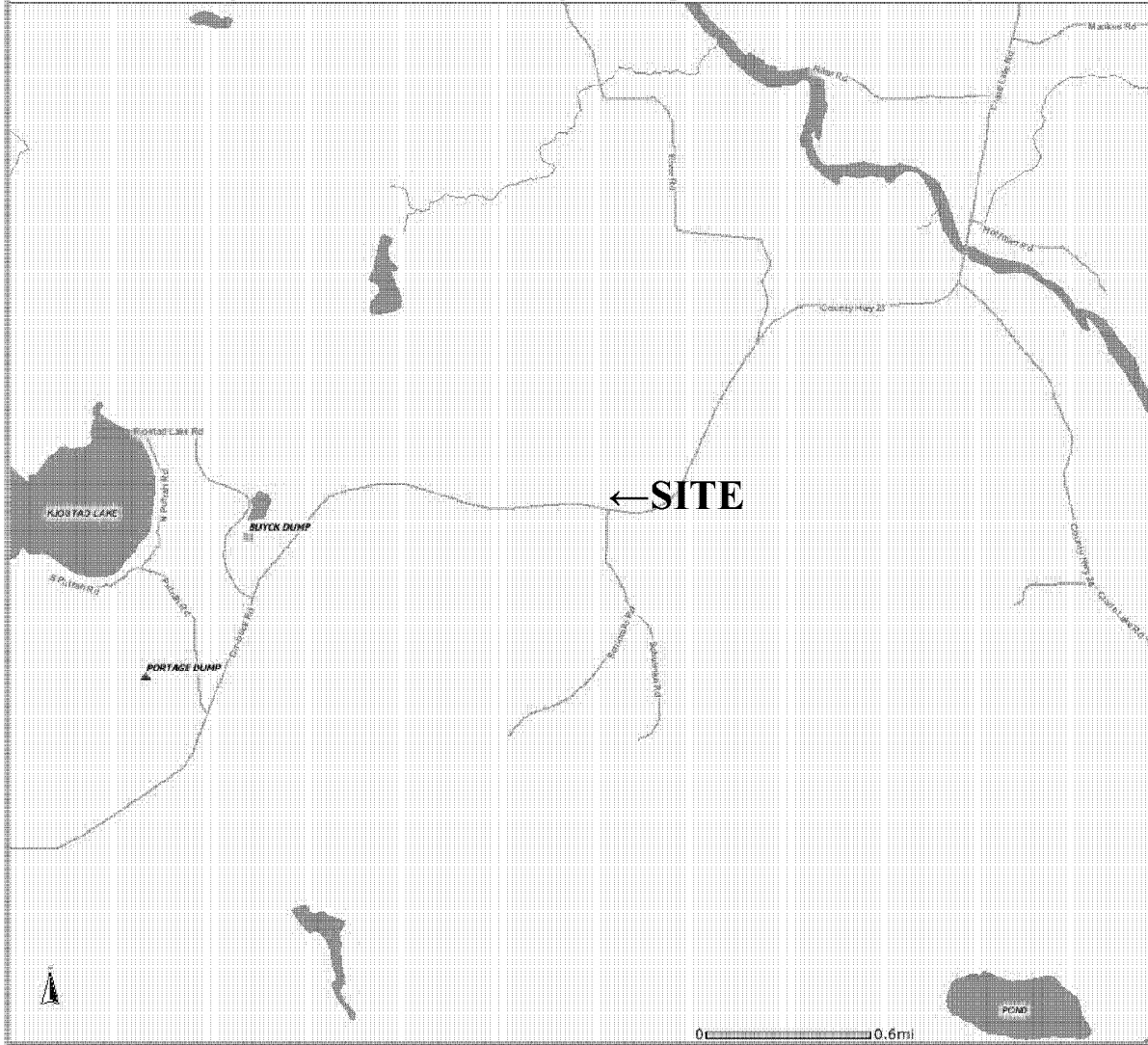
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 14

BUYCK CWI Well Map



Buyck What's In My Neighborhood Map

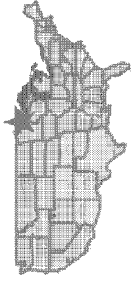
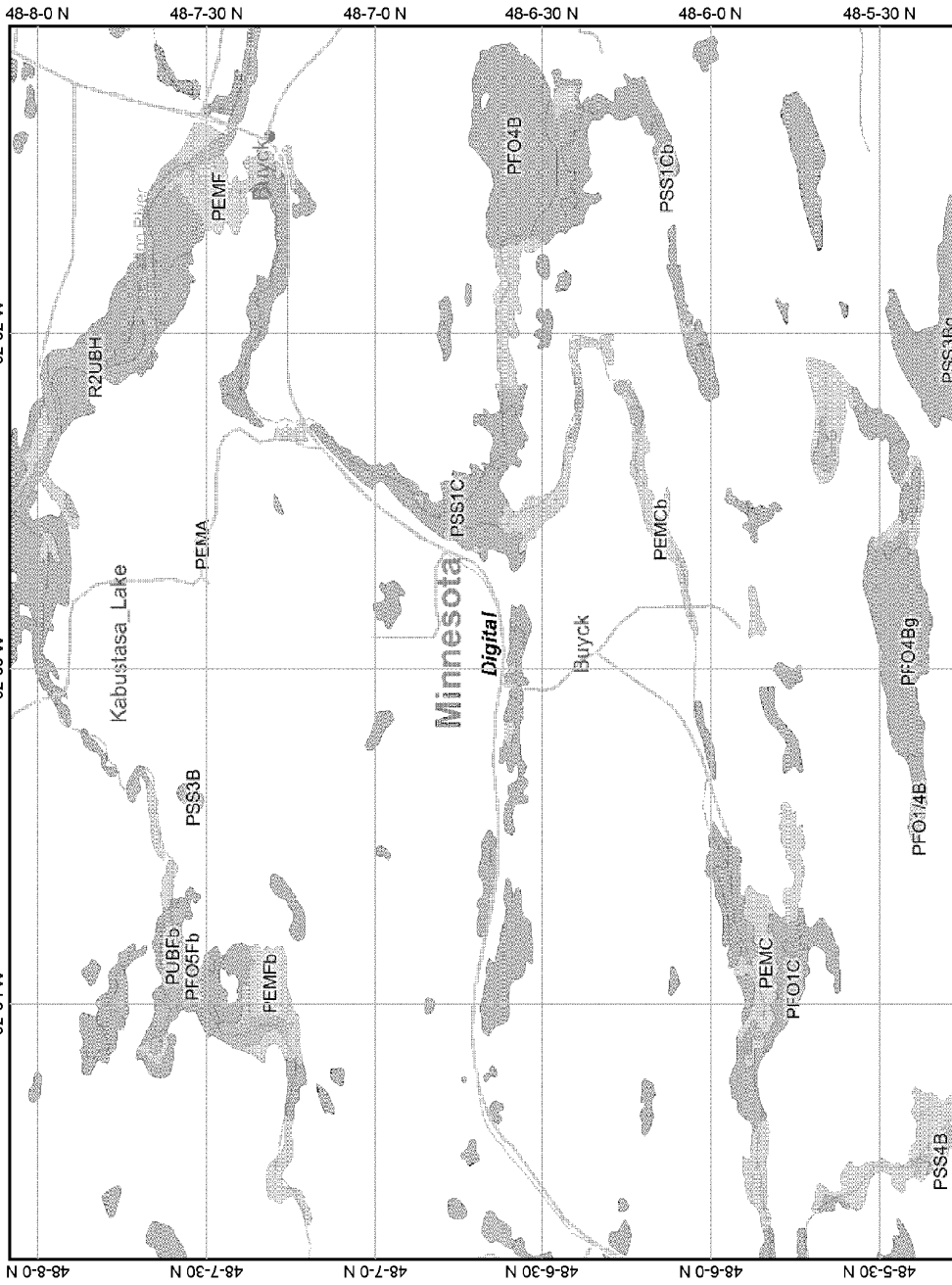


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 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Buyck Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
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- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:36,676

Map center: 48° 6' 40" N, 92° 32' 55" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

SITE SUMMARY

Site Name: Cass Lake

Fire Department: Cass Lake Volunteer Fire Department
Box 824
Cass Lake, MN 56633

Site Contact: Timothy Reiplinger, Fire Chief
218-335-6195
clfire@arvig.net

Training Location: Railroad right-of-way by 8 Railroad Street NW, Cass Lake

Type of foam used in training: AFFF: Angus First Strike
Class B: Silv-ex

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 0 to 5 gallons
AR-AFFF: 0 to 5 gallons
Class B: 20 to 25 gallons

Nearest surface water: Fox Creek located between 1/2 and 2/3 mile south

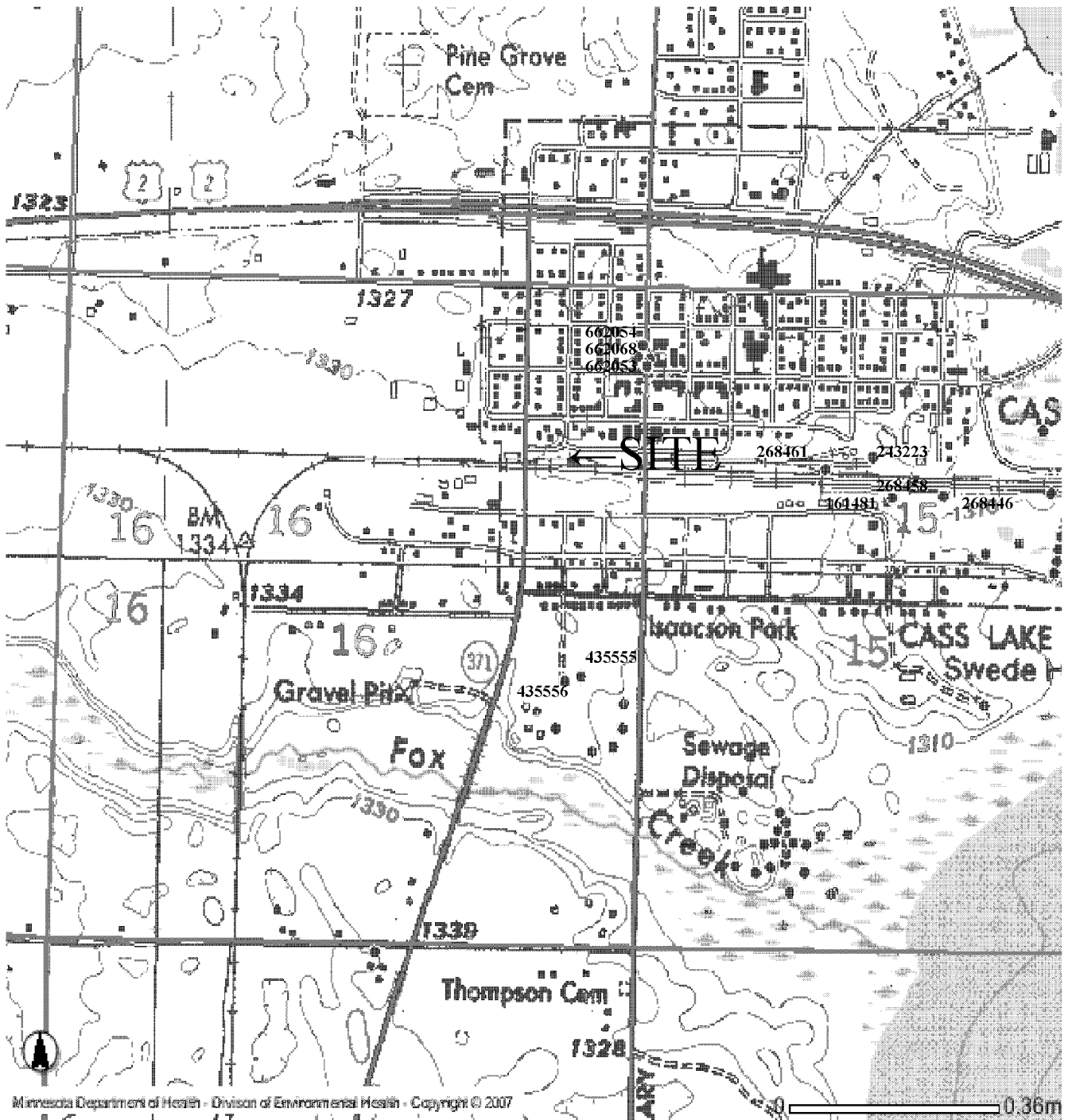
Nearest wetland: Between 1/2 and 2/3 mile south

Nearest water well: Less than 1/4 mile northeast

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

CASS LAKE CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Cass Lake What's In My Neighborhood Map

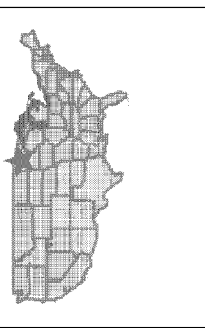


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

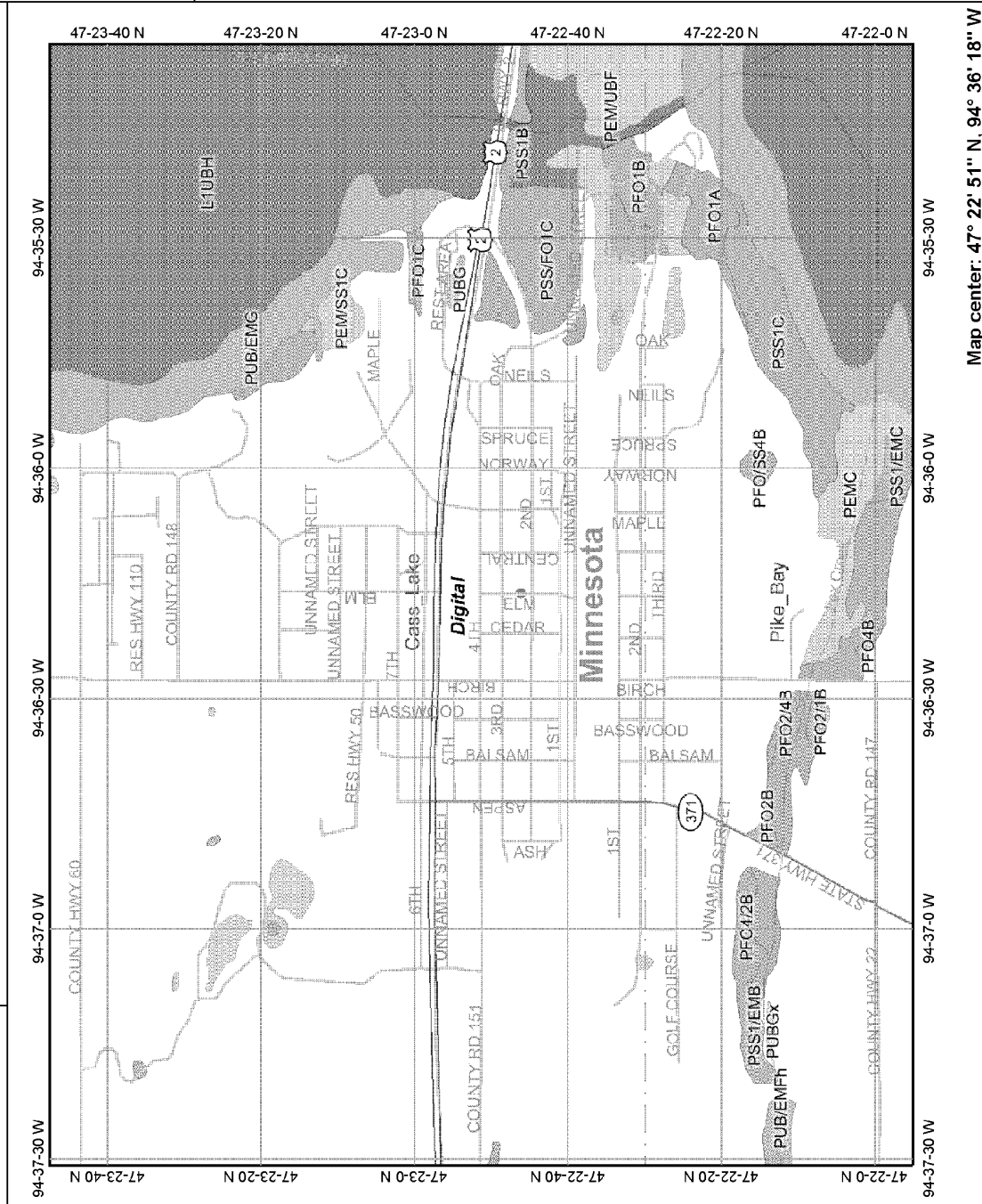
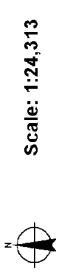
- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - ▲ Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Cass Lake Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
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- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

161481

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/24/1989
 Update Date 08/06/2007
 Received Date

<p>Well Name CHAMPION INT.CORP. Township Range Dir Section Subsections Elevation 1319 ft. 145 31 W 15 BDACAB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 35 ft. Depth Completed 35 ft. Date Well Completed 11/05/1985 Drilling Method Non-specified Rotary</p>																							
<p>Well Address CASS LAKE MN 56633</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>SAND & GRAVEL</td> <td>BROWN</td> <td>HARD</td> <td>0</td> <td>10</td> </tr> <tr> <td>SAND & GRAVEL,CEMENTED</td> <td>BROWN</td> <td>HARD</td> <td>10</td> <td>35</td> </tr> </tbody> </table>		Color	Hardness	From	To	SAND & GRAVEL	BROWN	HARD	0	10	SAND & GRAVEL,CEMENTED	BROWN	HARD	10	35	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Pump out well</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.</p> <p>Casing Diameter 6 in. to 25 ft. Weight 18.97 lbs./ft. Hole Diameter 12 in. to 35 ft.</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>15</td> <td>10</td> <td>0 ft. and ft.</td> </tr> </tbody> </table> <p>Static Water Level 12 ft. from Land surface Date Measured 12/12/1985</p> <p>PUMPING LEVEL (below land surface) 27 ft. after 1 hrs. pumping 20 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between	6	15	10	0 ft. and ft.
		Color	Hardness	From	To																			
	SAND & GRAVEL	BROWN	HARD	0	10																			
	SAND & GRAVEL,CEMENTED	BROWN	HARD	10	35																			
	Diameter	Slot/Gauze	Length	Set Between																				
	6	15	10	0 ft. and ft.																				
	<p>REMARKS .75 MILES E. OF HWY. 371 401 WHEELER DIVISION</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft.</p>																						
	<p>Located Minnesota Pollution Control Agency Method Digitization (Screen) - Map (1:12,000) Unique Number Verification Information from owner Date 07/26/2007 System UTM - Nad83, Zone15, Meters X: 379310 Y: 5248244</p>	<p>Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed 12/12/1985 Manufacturer's name GRUNDFAS Model number SP4-8 HP _ Volts 230 Length of drop Pipe 12 ft. Capacity 15 g.p.m Type Submersible Material Galvanized</p>																						
	<p>First Bedrock Last Strat Unknown deposit type</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Bergerson-Caswell 27058 NUBBE, D License Business Name Lic. Or Reg. No. Name of Driller</p>																						
	<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">161481</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/26/2008 HE-01205-07</p>																						

Minnesota Unique Well No.

243223

County Cass
 Quad Cass Lake
 Quad ID 301A

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 11/12/2001
 Update Date 09/17/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name USGS TEST WELL				Well Depth 63 ft.	Depth Completed 23 ft.	Date Well Completed 08/04/1986
Township 145	Range 31	Dir W	Section 15	Subsections BADCCD	Elevation 1321 ft.	Elevation Method Surveyed
				Drilling Method Power Auger		
				Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
				Use Observation well		
				Casing Type Galvanized Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.		
Casing Diameter		Weight		Hole Diameter		
2 in. to 20 ft.		lbs./ft.		4.5 in. to ft.		
2 in. to 23 ft.		lbs./ft.				
Open Hole from ft. to ft.						
Screen YES Make Type plastic						
Geological Material	Color	Hardness	From	To	Diameter	Slot/Gauze
CLEAN, COARSE SAND	RED/BRN	SOFT	0	5	2	10
FINE-MED SAND	BROWN	SOFT	5	15		
CLEAN, COARSE SAND	GRY/BRN	SOFT	15	40		
MED. SILTY SAND	GRY/BRN	SOFT	40	50		
MED-CRS SAND	GRY/BRN	SOFT	50	60		
CLAY, SILT & SAND	GRAY	HARD	60	63		
					Length	Set Between
					2	20 ft. and 22 ft.
				Static Water Level 17.5 ft. from Land surface Date Measured 08/09/1986		
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS WELL LOC: 0.8 MILES OFF 371, NEAR TRAIN TRACKS AND BULK FUEL STORAGE. FUEL OIL SMELL TO SEDIMENTS NEAR WATER TABLE! ----- MNDNR OBWELL NO.: 11016				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 17 ft.		
Located United States Geological Survey				Method Digitization (Screen) - Map (1:24,000)		
Unique Number				Nearest Known Source of Contamination _feet _direction _type		
Verification Information from owner				Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date 09/17/2007				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		
System UTM - Nad83, Zone15, Meters				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Well Contractor Certification United States Geological Survey USGS STARK, J. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock						
Last Strat						
Aquifer						
Depth to Bedrock ft.						

County Well Index Online Report	243223	Printed 6/26/2008 HE-01205-07
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Minnesota Unique Well No.

268446

County Cass
 Quad Cass Lake
 Quad ID 301A

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**

Entry Date 07/24/2007
 Update Date 07/27/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name ST REGIS PAPER - 104		Well Depth 22 ft.	Depth Completed 22 ft.	Date Well Completed 01/27/1982	
Township Range Dir Section Subsections Elevation 145 31 W 15 ACBBCD Elevation Method Surveyed		Drilling Method Water Rotary			
Geological Material SAND Color BROWN Hardness From 0 To 22 22 22		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Monitor well			
		Casing Type Galvanized Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		Above/Below ft.	
		Casing Diameter	Weight	Hole Diameter	
		Open Hole from ft. to ft.			
		Screen YES Make Type galvanized			
		Diameter	Slot/Gauze	Length	Set Between
		4		10	11 ft. and 21 ft.
		Static Water Level 12 ft. from Land surface Date Measured 01/27/1982			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS CHAMPION INTERNATIONAL SUPERFUND SITE - MW 104		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Pollution Control Agency		Method Digitization (Screen) - Map (1:12,000)			
Unique Number		Date 07/26/2007			
Verification Information from owner					
System UTM - Nad83, Zone15, Meters		X: 379467 Y: 5248257			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification North Star Drilling 49588 OOTHOUDT, T License Business Name Lic. Or Reg. No. Name of Driller			
First Bedrock		Aquifer Quat. Water Table Aquifer			
Last Strat		Depth to Bedrock ft.			
County Well Index Online Report		268446		Printed 6/26/2008 HF-01205-07	

Minnesota Unique Well No.

268458

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/24/2007
 Update Date 07/30/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name ST REGIS PAPER - 218		Well Depth 39 ft.	Depth Completed 38 ft.	Date Well Completed 12/29/1984	
Township Range Dir Section Subsections Elevation 145 31 W 15 BDABDD 1317.6 ft.		Elevation Method Surveyed			
Drilling Method Non-specified Rotary					
Geological Material SILTY SAND FINE SAND (POOR GRADED) SANDY CLAY		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Monitor well			
		Casing Type Stainless Steel Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		No Above/Below ft.	
		Casing Diameter 2 in. to 33 ft.	Weight lbs./ft.	Hole Diameter	
		Open Hole from ft. to ft.			
		Screen YES Make Type stainless steel			
		Diameter 2	Slot/Gauze	Length 5	Set Between 33 ft. and 38 ft.
		Static Water Level 15 ft. from Land surface Date Measured 12/29/1984			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS CHAMPION INTERNATIONAL SUPERFUND SITE - MW 218		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Pollution Control Agency		Method Digitization (Screen) - Map (1:12,000)			
Unique Number		Date 07/26/2007			
Verification Information from owner					
System UTM - Nad83, Zone15. Meters		X: 379324 Y: 5248253			
First Bedrock Last Strat		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller BRABENDER, L.			
		County Well Index Online Report			
		268458	Printed 6/26/2008 HE-01205-07		

Minnesota Unique Well No.

268461

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/25/2007
 Update Date 07/31/2007
 Received Date

<p>Well Name ST REGIS PAPER - 102 Township Range Dir Section Subsections Elevation 1320.8 ft. 145 31 W 15 BDBABC Elevation Method Surveyed</p>	<p>Well Depth 121 ft. Depth Completed 121 ft. Date Well Completed 02/10/1982 Drilling Method Mud Rotary</p>																																																																																														
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>FINE SAND</td><td>BROWN</td><td></td><td>0</td><td>16</td></tr> <tr><td>FINE SAND</td><td>BROWN</td><td></td><td>16</td><td>24</td></tr> <tr><td>MEDIUM SAND</td><td>BROWN</td><td></td><td>24</td><td>34</td></tr> <tr><td>CLAYEY SAND</td><td>DK. GRY</td><td></td><td>34</td><td>45</td></tr> <tr><td>SILTY SAND</td><td>GRAY</td><td></td><td>45</td><td>57</td></tr> <tr><td>COARSE GRAINED SAND</td><td>GRAY</td><td></td><td>57</td><td>58</td></tr> <tr><td>SILTY SAND</td><td>GRAY</td><td></td><td>58</td><td>72</td></tr> <tr><td>FINE SILTY SAND</td><td>GRAY</td><td></td><td>72</td><td>75</td></tr> <tr><td>SANDY CLAYEY SILT</td><td>DK. GRY</td><td></td><td>75</td><td>77</td></tr> <tr><td>CLAYEY SILT</td><td>DK. GRY</td><td></td><td>77</td><td>89</td></tr> <tr><td>CLAYEY SAND W/GRAVEL</td><td>YEL/BRN</td><td></td><td>89</td><td>99</td></tr> <tr><td>SILTY SAND W/GRAVEL & COBBLES</td><td>YEL/BRN</td><td></td><td>99</td><td>103</td></tr> <tr><td>FINE GRAINED SAND</td><td>YEL/BRN</td><td></td><td>103</td><td>109</td></tr> <tr><td>SILTY SAND W/ SOME GRAVEL</td><td>GRY/BRN</td><td></td><td>109</td><td>117</td></tr> <tr><td>CLAYEY SAND</td><td>GRAY</td><td></td><td>117</td><td>121</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	FINE SAND	BROWN		0	16	FINE SAND	BROWN		16	24	MEDIUM SAND	BROWN		24	34	CLAYEY SAND	DK. GRY		34	45	SILTY SAND	GRAY		45	57	COARSE GRAINED SAND	GRAY		57	58	SILTY SAND	GRAY		58	72	FINE SILTY SAND	GRAY		72	75	SANDY CLAYEY SILT	DK. GRY		75	77	CLAYEY SILT	DK. GRY		77	89	CLAYEY SAND W/GRAVEL	YEL/BRN		89	99	SILTY SAND W/GRAVEL & COBBLES	YEL/BRN		99	103	FINE GRAINED SAND	YEL/BRN		103	109	SILTY SAND W/ SOME GRAVEL	GRY/BRN		109	117	CLAYEY SAND	GRAY		117	121	<p>Drilling Fluid Bentonite</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Monitor well</p> <p>Casing Type Galvanized Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 105 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make Type galvanized</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td></td> <td>10</td> <td>105 ft. and 115 ft.</td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</p> <p><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 105 ft.	lbs./ft.		Diameter	Slot/Gauze	Length	Set Between	4		10	105 ft. and 115 ft.
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Pollution Control Agency Method Digitization (Screen) - Map (1:12,000) Unique Number Verification Information from owner Date 07/26/2007 System UTM - Nad83, Zone15, Meters X: 379139 Y: 5248323</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 100 ft.</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																																																																														
<p>First Bedrock Last Strat</p> <p>Aquifer Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Twin City Testing 1393 ZAK, M License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																																														
<p>County Well Index Online Report</p>	<p style="text-align: center;">268461</p> <p style="text-align: right;">Printed 6/26/2008 HE-01205-07</p>																																																																																														

Minnesota Unique Well No.

435555

County Cass
 Quad Pike Bay
 Quad ID 301D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 09/25/1992
 Update Date 08/01/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name ST REGIS PAPER - MW 125		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		31 ft.	31 ft.	10/20/1987	
145	31 W 16 DAACBD	Elevation Method (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Cable Tool			
Well Address CASS LAKE MN 56633 Geological Material SAND Color BROWN Hardness SOFT From 0 To 31		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Monitor well			
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.			
		Casing Diameter	Weight	Hole Diameter	
		6 in. to 16 ft.	19 lbs./ft.	6 in. to 31 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make JOHNSON Type stainless steel			
		Diameter	Slot/Gauze	Length	Set Between
	10	15	16 ft. and 31 ft.		
Static Water Level					
22.8 ft. from Land surface Date Measured 10/20/1987					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
E. HWY. 371 - S. OF RR TRACKS. #125. CHAMPION INTERNATIONAL SUPERFUND SITE - MW 125					
Located Minnesota Pollution Control Agency		Method Digitization (Screen) - Map (1:12,000)			
Unique Number		Date 07/26/2007			
Verification Information from owner					
System UTM - Nad83, Zone15, Meters		X: 378462 Y: 5247821			
		Nearest Known Source of Contamination			
		0 feet direction Waste pile type			
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts			
		Length of drop Pipe ft. Capacity g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
First Bedrock		North Star Drilling 48038 BEUNING, WALT			
Last Strat		License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		435555		Printed 6/26/2008 HE-01205-07	

Minnesota Unique Well No.

435556

County Cass
 Quad Pike Bay
 Quad ID 301D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 09/25/1992
 Update Date 08/01/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name ST REGIS PAPER - MW 124		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		32 ft.	32 ft.	10/21/1987	
145	31 W 16 DABDDA	Elevation Method (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Cable Tool			
Well Address CASS LAKE MN 56633 Geological Material SAND Color BROWN Hardness SOFT From 0 To 32		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Monitor well			
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.			
		Casing Diameter	Weight	Hole Diameter	
		6 in. to 17 ft.	19 lbs./ft.	6 in. to 32 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make JOHNSON Type steel (non-stainless)			
		Diameter	Slot/Gauze	Length	Set Between
	10	15	17 ft. and 32 ft.		
Static Water Level					
23.4 ft. from Land surface Date Measured 10/21/1987					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
E. HWY. 371 - S. OF RR TRACKS. #124. CHAMPION INTERNATIONAL SUPERFUND SITE - MW 125					
Located Minnesota Pollution Control Agency		Method Digitization (Screen) - Map (1:12,000)			
Unique Number		Date 07/26/2007			
Verification Information from owner					
System UTM - Nad83, Zone15, Meters		X: 378417 Y: 5247810			
		Nearest Known Source of Contamination			
		0 feet direction Waste pile type			
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts			
		Length of drop Pipe ft. Capacity g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/>			
		No			
		Well Contractor Certification			
First Bedrock		North Star Drilling 48038 BEUNING, WALT			
Last Strat		License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		435556		Printed 6/26/2008 HE-01205-07	

Minnesota Unique Well No.

662053

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 11/27/2001
 Update Date 01/29/2008
 Received Date 08/24/2001

Minnesota Statutes Chapter 103I

Well Name MW-1		Well Depth 30 ft.	Depth Completed 26 ft.	Date Well Completed 07/23/2001																																			
Township Range Dir Section Subsections Elevation 145 31 W 15 BBBCCC Elevation Method		1329 ft. 7.5 minute topographic map (+/- 5 feet)																																					
Drilling Method Auger (non-specified)																																							
Well Address 2ND ST N CASS LAKE MN 56633 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CONCRETE SAND GRAVEL</td> <td>DK. BRN</td> <td>MEDIUM</td> <td>0</td> <td>2</td> </tr> <tr> <td>GRAVELY SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>2</td> <td>4</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>4</td> <td>18</td> </tr> <tr> <td>SAND</td> <td>BRN/GRY</td> <td>MEDIUM</td> <td>18</td> <td>20</td> </tr> <tr> <td>WET SAND</td> <td>BRN/GRY</td> <td>MEDIUM</td> <td>20</td> <td>26</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>26</td> <td>30</td> </tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CONCRETE SAND GRAVEL	DK. BRN	MEDIUM	0	2	GRAVELY SAND	BROWN	MEDIUM	2	4	SAND	BROWN	MEDIUM	4	18	SAND	BRN/GRY	MEDIUM	18	20	WET SAND	BRN/GRY	MEDIUM	20	26	SAND	BROWN	MEDIUM	26	30	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																	
		CONCRETE SAND GRAVEL	DK. BRN	MEDIUM	0	2																																	
		GRAVELY SAND	BROWN	MEDIUM	2	4																																	
		SAND	BROWN	MEDIUM	4	18																																	
		SAND	BRN/GRY	MEDIUM	18	20																																	
		WET SAND	BRN/GRY	MEDIUM	20	26																																	
		SAND	BROWN	MEDIUM	26	30																																	
		Use Abandoned Status Sealed																																					
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																					
Casing Diameter 2 in. to 16 ft.		Weight 0.69 lbs./ft.	Hole Diameter 8.25 in. to 30 ft.																																				
Open Hole from ft. to ft.																																							
Screen YES Make TIMCO Type plastic																																							
Diameter 2		Slot/Gauze 10	Length 10	Set Between 16 ft. and 26 ft.																																			
Static Water Level 20.5 ft. from Land surface Date Measured 07/23/2001																																							
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																							
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
REMARKS WELL SEALED 12-21-2004 BY 73646 ORIGINAL USE MW - MONITOR WELL Located U.S. Forest Service Method GPS SA Off (averaged) Unique Number Verification Tag on well Date 07/01/2004 System UTM - Nad83, Zone15, Meters X: 378646 Y: 5248574		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
		Grout Material: Neat Cement		from 0 to 11 ft.	3 bags																																		
		Grout Material: Bentonite		from 11 to 13 ft.	1 bags																																		
		Nearest Known Source of Contamination _feet _direction _type																																					
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																					
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
		Well Contractor Certification Thein Well Co. 34625 HERRBOLDT, N. License Business Name Lic. Or Reg. No. Name of Driller																																					
		First Bedrock		Aquifer																																			
Last Strat Unknown deposit type		Depth to Bedrock ft.																																					
County Well Index Online Report		662053		Printed 6/26/2008 HE-01205-07																																			

Minnesota Unique Well No.

662054

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 11/26/2001
 Update Date 01/29/2008
 Received Date 08/24/2001

Minnesota Statutes Chapter 1031

Well Name MW-3		Well Depth 30 ft.	Depth Completed 30 ft.	Date Well Completed 07/23/2001	
Township Range Dir Section Subsections Elevation 145 31 W 16 AAADAD Elevation Method		1331 ft. 7.5 minute topographic map (+/- 5 feet)			
Drilling Method Auger (non-specified)					
Well Address 2ND ST N CASS LAKE MN 56633 Geological Material CONCRETE SAND Color BROWN Hardness MEDIUM From 0 To 2 SAND BROWN MEDIUM 2 22 WET SAND BRN/GRY MEDIUM 22 28 SAND BROWN MEDIUM 28 30		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
		Use Abandoned Status Sealed			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.			
		Casing Diameter 2 in. to 20 ft.	Weight 0.69 lbs./ft.	Hole Diameter 8.25 in. to 30 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make TIMCO Type plastic		Diameter 2 Slot/Gauze 10 Length 10 Set Between 20 ft. and 30 ft.	
		Static Water Level 24.5 ft. from Land surface Date Measured 07/23/2001			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
		REMARKS MW # 3 WELL SEALED 12-21-2004 BY 73646 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 15 ft. 3 bags Grout Material: Bentonite from 15 to 17 ft. 1 bags	
Located U.S. Forest Service Method GPS SA Off (averaged)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Unique Number Verification N/A Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ ft. Capacity ___ g.p.m. Type Material			
System UTM - Nad83, Zone15, Meters X: 378634 Y: 5248624		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
First Bedrock		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Last Strat Unknown deposit type Depth to Bedrock ft.		Well Contractor Certification Thein Well Co. 34625 HERRBOLDT, N. License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		662054		Printed 6/26/2008 HE-01205-07	

Minnesota Unique Well No.

662068

County Cass
 Quad Cass Lake
 Quad ID 301A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 11/26/2001
 Update Date 01/29/2008
 Received Date 08/24/2001

Minnesota Statutes Chapter 103I

Well Name MW-2				Well Depth 30 ft.		Depth Completed 28 ft.		Date Well Completed 07/23/2001			
Township Range Dir Section Subsections Elevation				1329 ft.							
145 31 W 15 BBBCCB Elevation Method				7.5 minute topographic map (+/- 5 feet)							
Well Address GRANT UTLEY AV CASS LAKE MN Geological Material CONCRETE SAND Color BROWN Hardness MEDIUM From 0 To 2 SAND BROWN MEDIUM 2 18 WET SAND BRN/GRY MEDIUM 18 26 SAND BLK/BRN/GRY VARIED MEDIUM 26 28 SAND BRN/GRY MEDIUM 28 30				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.					
				Use Abandoned		Status Sealed					
				Casing Type Plastic		Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Above/Below ft.	
				Casing Diameter		Weight		Hole Diameter			
				2 in. to 18 ft.		0.69 lbs./ft.		8.25 in. to 30 ft.			
				Open Hole from ft. to ft.							
				Screen YES		Make TIMCO		Type plastic			
				Diameter		Slot/Gauze		Length		Set Between	
				2		10		10		18 ft. and 28 ft.	
				Static Water Level				22 ft. from Land surface		Date Measured 07/23/2001	
PUMPING LEVEL (below land surface)				ft. after hrs. pumping		g.p.m.					
Well Head Completion				Pitless adapter manufacturer		Model					
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade		<input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)							
REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
MW #2 SUMMIT WELL SEALED 12-21-2004 BY 73646 ORIGINAL USE MW - MONITOR WELL				Grout Material: Neat Cement		from 0 to 13 ft.		3 bags			
Located U.S. Forest Service Method GPS SA Off (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 378654 Y: 5248592				Grout Material: Bentonite		from 13 to 15 ft.		1 bags			
				Nearest Known Source of Contamination _feet _direction _type							
				Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
				Pump <input type="checkbox"/> Not Installed Date Installed							
				Manufacturer's name		Model number		HP Volts			
				Length of drop Pipe		Capacity		Type Material			
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
				Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
				Well Contractor Certification							
First Bedrock		Aquifer		Thein Well Co.		34625		HERRBOLDT, N.			
Last Strat Unknown deposit type		Depth to Bedrock ft.		License Business Name		Lic. Or Reg. No.		Name of Driller			
County Well Index Online Report				662068		Printed 6/26/2008 HE-01205-07					

SITE SUMMARY

Site Name: Claremont

Fire Department: Claremont Fire Department
Box D
Claremont, MN 55924

Site Contact: Jeff Cowell, 2nd Assistsant Fire Chief Training Officer
507-528-2701

Training Location: In front of fire hall on Front Street, Claremont

Type of foam used in training: AR-AFFF: 3M

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Storm sewer

Annual foam use: AR-AFFF: Approximately 20 gallons
Class A: 5 gallons

Nearest surface water: Intermittent stream 1/4 to 1/2 mile southeast

Nearest wetland: More than 1 mile

Karst: Site located in transition or covered karst area

Nearest water well: Less than 1/8 mile southwest

Nearest Wellhead Protection Area: More than 1 mile

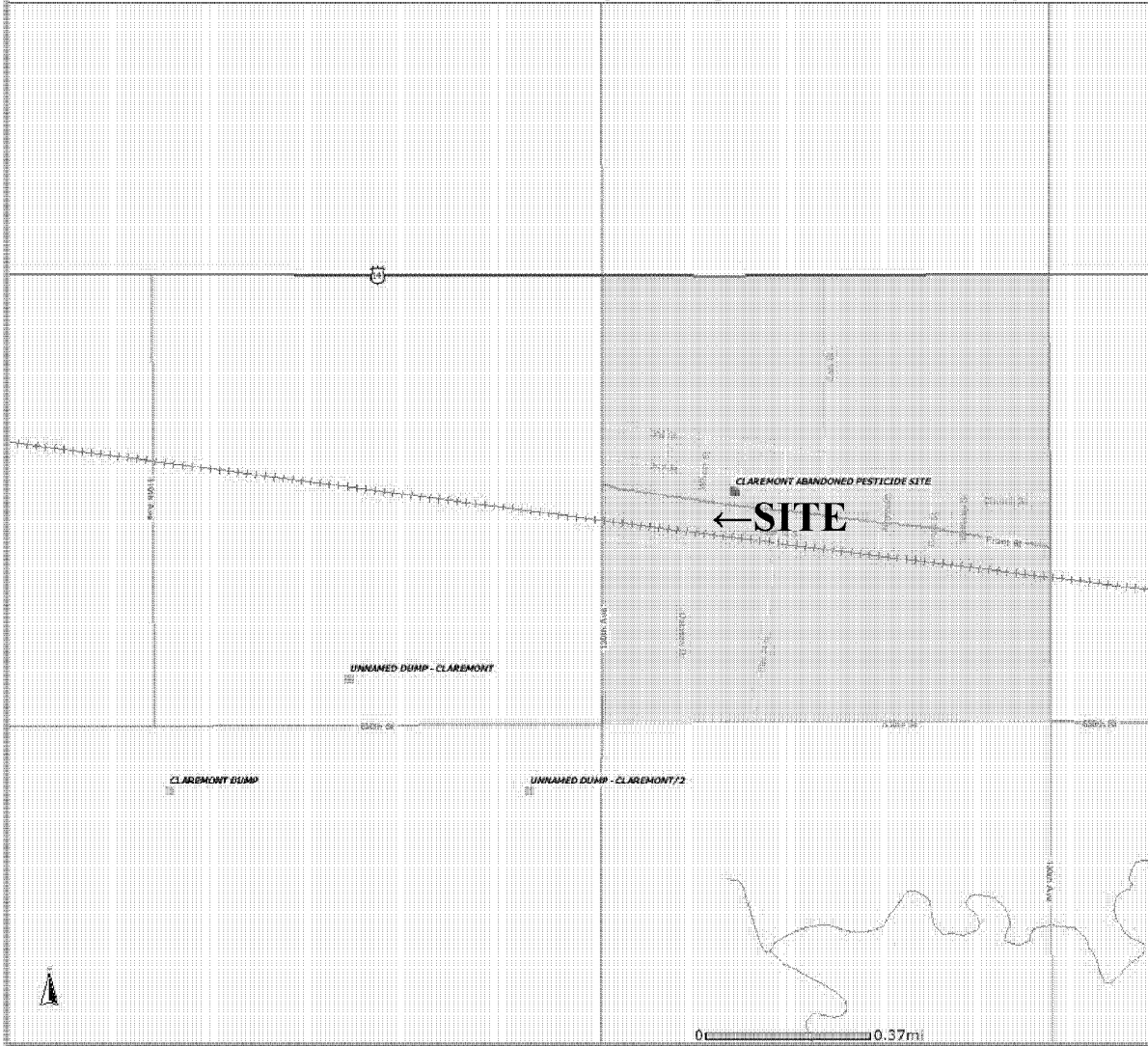
SITE RANKING: 18

CLAREMONT CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Claremont What's In My Neighborhood Map

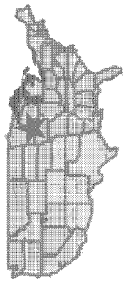
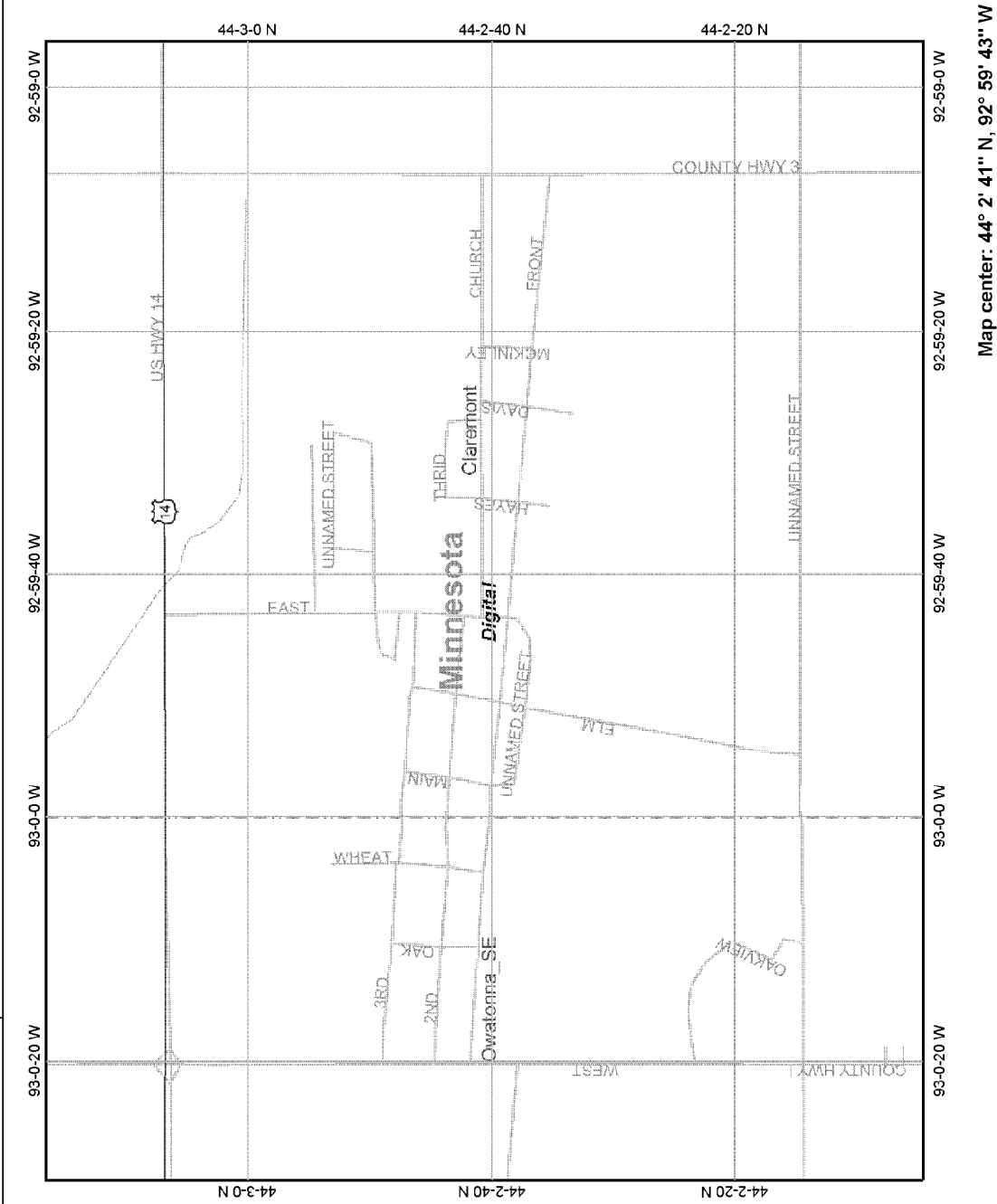


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 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Claremont



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:15,588

Map center: 44° 2' 41" N, 92° 59' 43" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

101520

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 02/29/1988
 Update Date 01/09/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name K & A SUPPLY		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		202 ft.	202 ft.	04/09/1976
107	18 W 29 DAAAAC	Elevation Method topographic map (+/- 5 feet)		
Drilling Method		Non-specified Rotary		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use		Domestic		
Casing Type		Steel (black or low carbon)	Joint Welded	Drive Shoe? <input checked="" type="checkbox"/>
Yes <input type="checkbox"/> No		Above/Below 1 ft.		
Casing Diameter		Weight	Hole Diameter	
6 in. to 123 ft.		18.97 lbs./ft.	6 in. to 202 ft.	
Open Hole		from 123 ft. to 202 ft.		
Screen NO		Make	Type	
Diameter		Slot/Gauze	Length	Set Between
Geological Material		Color	Hardness	From To
DRIFT		BROWN	SOFT	0 123
GALENA		WHITE	HARD	123 202
Static Water Level		38 ft. from Land surface Date Measured 04/09/1976		
PUMPING LEVEL (below land surface)		72 ft. after 2 hrs. pumping 48 g.p.m.		
Well Head Completion		Pitless adapter manufacturer Model		
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information		Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Grout Material: Bentonite		from 0 to 123 ft.		
Nearest Known Source of Contamination		200 feet N direction Other type		
Well disinfected upon completion?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input checked="" type="checkbox"/> Not Installed		Date Installed 04/13/1976		
Manufacturer's name RED JACKET		Model number 13FC		
HP 5 Volts 230				
Length of drop Pipe 120 ft.		Capacity 50 g.p.m		
Type Submersible		Material Galvanized		
Abandoned Wells		Does property have any not in use and not sealed well(s)?		
<input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance		Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Well Contractor Certification		Christenson Well 20065 COTTRELL J.		
License Business Name		Lic. Or Reg. No. Name of Driller		
First Bedrock Galena		Aquifer Galena		
Last Strat Galena		Depth to Bedrock 123 ft.		
County Well Index Online Report		101520		Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

217548

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/29/1988
 Update Date 04/25/2006
 Received Date

Well Name CLAREMONT CREAMERY Township Range Dir Section Subsections Elevation 1281 ft. 107 18 W 28 BCCDBA Elevation Method 7.5 minute topographic map (-/ 5 feet)		Well Depth 790 ft. Depth Completed 790 ft. Date Well Completed 00/00/1952																																								
Drilling Method Cable Tool		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																								
Use Commercial		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																								
Casing Diameter in. to 129 ft. Weight lbs./ft. Hole Diameter		Open Hole from 129 ft. to 790 ft.																																								
Well Address CLAREMONT MN 55924		Screen NO Make Type Diameter Slot/Gauze Length Set Between																																								
Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>0</td> <td>85</td> </tr> <tr> <td></td> <td>SOFT</td> <td>85</td> <td>127</td> </tr> <tr> <td></td> <td></td> <td>127</td> <td>322</td> </tr> <tr> <td></td> <td></td> <td>322</td> <td>440</td> </tr> <tr> <td></td> <td>SOFT</td> <td>440</td> <td>550</td> </tr> <tr> <td></td> <td></td> <td>550</td> <td>607</td> </tr> <tr> <td></td> <td></td> <td>607</td> <td>665</td> </tr> <tr> <td></td> <td></td> <td>665</td> <td>694</td> </tr> <tr> <td></td> <td>SOFT</td> <td>694</td> <td>790</td> </tr> </tbody> </table>		Color	Hardness	From	To			0	85		SOFT	85	127			127	322			322	440		SOFT	440	550			550	607			607	665			665	694		SOFT	694	790	Static Water Level 46 ft. from Land surface Date Measured 00/00/1952
Color	Hardness	From	To																																							
		0	85																																							
	SOFT	85	127																																							
		127	322																																							
		322	440																																							
	SOFT	440	550																																							
		550	607																																							
		607	665																																							
		665	694																																							
	SOFT	694	790																																							
REMARKS CAVED IN BELOW 480 FT. TV BY PAT SARAFOLEAN OF MDH 4-24-2006 TO ABOUT 103 FT. OBSTRUCTED.		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																								
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																								
Unique Number Verification Information from neighbor Date 04/25/2006		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
System UTM - Nad83, Zone15, Meters X: 499681 Y: 4876917		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
First Bedrock Galena Aquifer Multiple Last Strat Prairie Du Chien Group Depth to Bedrock 127 ft.		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																								
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
		Well Contractor Certification McCarthy Well Co. 27022 License Business Name Lic. Or Reg. No. Name of Driller																																								
		217548 Printed 6/26/2008 HE-01205-07																																								

Minnesota Unique Well No.

256983

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/25/2006
 Update Date 04/26/2006
 Received Date

Well Name CLAREMONT CREAMERY 12X8 Township Range Dir Section Subsections Elevation 107 18 W 28 BCCDDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 330 ft.	Depth Completed 330 ft.	Date Well Completed
Well Address FRONT ST CLAREMONT MN 55924		Drilling Method Cable Tool		
Geological Material GLACIAL DRIFT GALENA LIMESTONE GALENA LIMESTONE GALENA LIMESTONE		Color --	Hardness --	From To 0 133 133 213 213 279 279 330
REMARKS GAMMA LOGGED & TV BY PAT SARAFOLEAN FOR MDH ON 4-24-2006. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 04/25/2006 System UTM - Nad83, Zone15, Meters X: 499724 Y: 4876877		Drilling Fluid --		
		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Commercial		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter 12 in. to 140 ft. 8 in. to 164 ft.	Weight lbs./ft. lbs./ft.	Hole Diameter
		Open Hole from 164 ft. to 330 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level 53.2 ft. from Land surface Date Measured 04/24/2006		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Borehole Geophysics Yes First Bedrock Galena Aquifer Galena Last Strat Galena Depth to Bedrock 133 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification <u>Minnesota Department of Health</u> <u>MDH</u> License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		256983		Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

256984

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/25/2006
 Update Date 04/26/2006
 Received Date

Well Name CLAREMONT CREAMERY					Well Depth 267 ft.		Depth Completed 267 ft.		Date Well Completed																					
Township Range Dir Section Subsections Elevation 107 18 W 28 BCCDBA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Drilling Method Cable Tool																									
Well Address FRONT ST CLAREMONT MN 55924 <table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>GLACIAL DRIFT</td> <td></td> <td></td> <td>0</td> <td>137</td> </tr> <tr> <td>GALENA LIMESTONE</td> <td></td> <td></td> <td>137</td> <td>213</td> </tr> <tr> <td>GALENA LIMESTONE</td> <td></td> <td></td> <td>213</td> <td>267</td> </tr> </table>					Geological Material	Color	Hardness	From	To	GLACIAL DRIFT			0	137	GALENA LIMESTONE			137	213	GALENA LIMESTONE			213	267	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
					Geological Material	Color	Hardness	From	To																					
					GLACIAL DRIFT			0	137																					
					GALENA LIMESTONE			137	213																					
					GALENA LIMESTONE			213	267																					
					Use Domestic																									
					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/>																									
					Yes <input type="checkbox"/> No Above/Below ft.																									
					Casing Diameter 12 in. to 137.7 ft.		Weight lbs./ft.		Hole Diameter 12 in. to 267 ft.																					
					Open Hole from 137.7 ft. to 267 ft.																									
Screen NO		Make		Type																										
Diameter		Slot/Gauze		Length		Set Between																								
Static Water Level 52.4 ft. from Land surface		Date Measured 04/24/2006																												
PUMPING LEVEL (below land surface)		ft. after hrs. pumping		g.p.m.																										
Well Head Completion		Pitless adapter manufacturer		Model																										
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade																												
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																														
REMARKS GAMMA, MULTI AND CALIPER LOGGED 4-24-2006. LOGGED FOR MDH SE. TV BY PAT SARAFOLEAN OF MDH 4-24-2006. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 04/25/2006 System UTM - Nad83, Zone15, Meters X: 499683 Y: 4876930					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
					Nearest Known Source of Contamination		_feet _direction _type																							
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
					Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name		Model number __ HP_ Volts																					
					Length of drop Pipe _ft.		Capacity _g.p.m		Type		Material																			
Borehole Geophysics Yes First Bedrock Galena Aquifer Galena Last Strat Galena Depth to Bedrock 137 ft.					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>		Yes <input type="checkbox"/> No																							
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
					Well Contractor Certification		Minnesota Department of Health		MDH																					
					License Business Name		Lic. Or Reg. No.		Name of Driller																					
County Well Index Online Report					256984				Printed 6/26/2008 HE-01205-07																					

Minnesota Unique Well No.

256985

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/25/2006
 Update Date 04/08/2008
 Received Date

Well Name CLAREMONT CREAMERY Township Range Dir Section Subsections Elevation 1281 ft. 107 18 W 28 BCCDCB Elevation Method 7.5 minute topographic map (-/+ 5 feet)		Well Depth 0 ft. Depth Completed 0 ft. Date Well Completed
Well Address FRONT ST CLAREMONT MN 55924		Drilling Method Cable Tool Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material NO RECORD Color Hardness From 0 To 0		Use Commercial Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.
		Casing Diameter Weight Hole Diameter Open Hole from ft. to ft. Screen Make Type Diameter Slot/Gauze Length Set Between
		Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 04/25/2006 System UTM - Nad83, Zone15, Meters X: 499637 Y: 4876884		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material
First Bedrock Last Strat No Record Aquifer Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		256985 Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

256986

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/25/2006
 Update Date 04/08/2008
 Received Date

Well Name CLAREMONT CREAMERY Township Range Dir Section Subsections Elevation 1281 ft. 107 18 W 28 BCCDDB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 40 ft. Depth Completed 40 ft. Date Well Completed
		Drilling Method --
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Commercial
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
		Casing Diameter 6 in. to ft. Weight lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen Make Type
		Diameter Slot/Gauze Length Set Between
Well Address FRONT ST CLAREMONT MN 55924		
Geological Material NO RECORD Color Hardness From 0 To 0		
		Static Water Level ft. from Date Measured
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS 6 IN. WELL ONLY 40 FT. DEEP NOT GAMMA LOGGED OR TV ON 4-24-2006.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Unique Number Verification Information from owner Date 04/25/2006		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
System UTM - Nad83, Zone15, Meters X: 499709 Y: 4876870		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat No Record Aquifer Depth to Bedrock ft.		
County Well Index Online Report		256986 Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

466339

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/28/1991
 Update Date 01/09/2002
 Received Date

Well Name WOB BROCK, ROBERT Township Range Dir Section Subsections Elevation 1290 ft. 107 18 W 28 CBCBCD Elevation Method 7.5 minute topographic map (1/- 5 feet)		Well Depth 184 ft. Depth Completed 184 ft. Date Well Completed 05/21/1991 Drilling Method Non-specified Rotary																																
Well Address RR 1 CLAREMONT MN 55924		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Domestic Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.																																
Geological Material <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>YEL/BLU</td> <td>MEDIUM</td> <td>0</td> <td>112</td> </tr> <tr> <td>TAN</td> <td>SOFT</td> <td>112</td> <td>116</td> </tr> <tr> <td></td> <td>MEDIUM</td> <td>116</td> <td>132</td> </tr> <tr> <td>TAN</td> <td>SOFT</td> <td>132</td> <td>135</td> </tr> <tr> <td>GRY/TAN</td> <td>HARD</td> <td>135</td> <td>184</td> </tr> </tbody> </table>		Color	Hardness	From	To	YEL/BLU	MEDIUM	0	112	TAN	SOFT	112	116		MEDIUM	116	132	TAN	SOFT	132	135	GRY/TAN	HARD	135	184	Casing Diameter 5 in. to 138 ft. Weight 15 lbs./ft. Hole Diameter 8 in. to 135 ft. 5 in. to 184 ft. Open Hole from 138 ft. to 184 ft. Screen NO Make Type <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Diameter	Slot/Gauze	Length	Set Between				
Color	Hardness	From	To																															
YEL/BLU	MEDIUM	0	112																															
TAN	SOFT	112	116																															
	MEDIUM	116	132																															
TAN	SOFT	132	135																															
GRY/TAN	HARD	135	184																															
Diameter	Slot/Gauze	Length	Set Between																															
NO REMARKS		Static Water Level 53 ft. from Land surface Date Measured 05/21/1991 PUMPING LEVEL (below land surface) 53 ft. after 1 hrs. pumping 12 g.p.m. Well Head Completion Pitless adapter manufacturer BAKER Model 7PS56S4C1 <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																
Located Mankato State University Method Digitization (Screen) - Map (1:24,000) Unique Number Date 06/23/2004 Verification Information from owner System UTM - Nad83, Zone15, Meters X: 499591 Y: 4876549		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 135 ft. 0.75 yds. Nearest Known Source of Contamination 60 feet North West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/25/1991 Manufacturer's name AEROMOTOR Model number A12B50 HP 0.5 Volts 230 Length of drop Pipe 66 ft. Capacity 12 g.p.m. Type Submersible Material Steel (black or low carbon)																																
First Bedrock Galena Aquifer Galena Last Strat Galena Depth to Bedrock 135 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Born Well Co. 81162 BORN, D. License Business Name Lic. Or Reg. No. Name of Driller																																
County Well Index Online Report		466339 Printed 6/26/2008 HE-01205-07																																

Minnesota Unique Well No.

521068

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/14/1993
 Update Date 01/09/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name				Well Depth		Depth Completed		Date Well Completed																																																			
Township Range Dir Section Subsections Elevation				1278 ft.		262 ft.		262 ft.																																																			
107 18 W 28 CCCDB Elevation Method				7.5 minute topographic map (+/- 5 feet)		Non-specified Rotary																																																					
Well Address RR 1 CLAREMONT MN 55924 Geological Material <table border="1"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>SOIL</td><td>BLACK</td><td>SOFT</td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YEL/WHT</td><td>SOFT</td><td>2</td><td>4</td></tr> <tr><td>GRAVEL</td><td>BROWN</td><td>SOFT</td><td>4</td><td>18</td></tr> <tr><td>SANDY CLAY</td><td>YEL/WHT</td><td>SOFT</td><td>18</td><td>33</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>SOFT</td><td>33</td><td>73</td></tr> <tr><td>CLAY</td><td>BROWN</td><td>SOFT</td><td>73</td><td>121</td></tr> <tr><td>SAND</td><td>WHITE</td><td>SOFT</td><td>121</td><td>142</td></tr> <tr><td>LIMESTONE</td><td>TAN</td><td>HARD</td><td>142</td><td>220</td></tr> <tr><td>LIMESTONE</td><td>LT. GRY</td><td>HARD</td><td>220</td><td>262</td></tr> </tbody> </table>				Geological Material	Color	Hardness	From	To	SOIL	BLACK	SOFT	0	2	CLAY	YEL/WHT	SOFT	2	4	GRAVEL	BROWN	SOFT	4	18	SANDY CLAY	YEL/WHT	SOFT	18	33	CLAY	BLUE	SOFT	33	73	CLAY	BROWN	SOFT	73	121	SAND	WHITE	SOFT	121	142	LIMESTONE	TAN	HARD	142	220	LIMESTONE	LT. GRY	HARD	220	262	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Geological Material	Color	Hardness	From	To																																																			
				SOIL	BLACK	SOFT	0	2																																																			
				CLAY	YEL/WHT	SOFT	2	4																																																			
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LIMESTONE	LT. GRY	HARD	220	262																																																							
Use Domestic																																																											
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/>																																																											
Yes <input type="checkbox"/> No Above/Below ft.																																																											
Casing Diameter			Weight			Hole Diameter																																																					
5 in. to 142 ft.			15 lbs./ft.			8 in. to 142 ft. 4 in. to 262 ft.																																																					
Open Hole from 142 ft. to 262 ft.																																																											
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Static Water Level ft. from Date Measured																																																											
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																											
Well Head Completion Pitless adapter manufacturer MONITOR Model 6PS56S4C1 <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																											
REMARKS OAKVIEW ESTATES ADD. BLK 2 LOTS 1 & 2.				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 142 ft. 1.25 yds.																																																							
Located Method Digitization (Screen) - Map (1:24,000)				Nearest Known Source of Contamination 52 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																							
Unique Number Verification Information from owner Date 03/26/2002				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 01/23/1993 Manufacturer's name <u>AERMOTOR</u> Model number <u>A12B50</u> <u> </u> HP <u>0.5</u> Volts <u>230</u> Length of drop Pipe <u> </u> ft. Capacity <u>12</u> g.p.m. Type <u>Submersible</u> Material																																																							
System UTM - Nad83, Zone15, Meters X: 499593 Y: 4876068				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																							
First Bedrock Galena Aquifer Galena				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																							
Last Strat Galena Depth to Bedrock 142 ft.				Well Contractor Certification <u>Born Well Co.</u> <u>81162</u> <u>BORN, R.</u> License Business Name Lic. Or Reg. No. Name of Driller																																																							
County Well Index Online Report				521068		Printed 6/26/2008 HE-01205-07																																																					

Minnesota Unique Well No.

698973

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date
 Update Date 08/02/2006
 Received Date 11/14/2003

Minnesota Statutes Chapter 1031

<p>Well Name MW-1</p> <p>Township Range Dir Section Subsections Elevation 1282 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>107 18 W 28 CBADAA Elevation Method</p>	<p>Well Depth 15 ft. Depth Completed 15 ft. Date Well Completed 10/20/2003</p> <p>Drilling Method Auger (non-specified)</p>
<p>Well Address FRONT ST W CLAREMONT MN 55924</p> <p>Geological Material CLAY</p> <p>Color BROWN Hardness MEDIUM From 0 To 15</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Monitor well</p>
	<p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.</p>
	<p>Casing Diameter 2 in. to 5 ft. Weight 0.69 lbs./ft. Hole Diameter 8.25 in. to 15 ft.</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen YES Make TIMCO Type plastic</p>
	<p>Diameter 2 Slot/Gauze 10 Length 10 Set Between 5 ft. and 15 ft.</p>
	<p>Static Water Level 5 ft. from Land surface Date Measured 10/20/2003</p>
	<p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Date 04/25/2006</p> <p>Verification Tag on well</p> <p>System UTM - Nad83, Zone15, Meters X: 499923 Y: 4876735</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 0 to 4 ft. 1 bags Grout Material: Bentonite from 4 to 4.5 ft. 0.5 bags</p>
<p>First Bedrock Aquifer Quat. Water Table Aquifer</p> <p>Last Strat Clay-brown Depth to Bedrock ft.</p>	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>Well Contractor Certification Thein Well Co. 34625 WIEBER, A. License Business Name Lic. Or Reg. No. Name of Driller</p>	<p>County Well Index Online Report</p>
<p>698973</p>	<p>Printed 6/26/2008 HE-01205-07</p>

Minnesota Unique Well No.

698974

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date
 Update Date 04/25/2006
 Received Date 11/14/2003

Minnesota Statutes Chapter 1031

Well Name MW-2		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		15 ft.	15 ft.	10/20/2003	
107	18 W 28 CBAADD Elevation Method	Drilling Method Auger (non-specified)			
7.5 minute topographic map (+/- 5 feet)					
Well Address FRONT ST W CLAREMONT MN 55924 Geological Material CLAY Color BROWN Hardness MEDIUM From 0 To 15		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Monitor well			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Above/Below ft.	
		Casing Diameter	Weight	Hole Diameter	
		2 in. to 5 ft.	0.69 lbs./ft.	8.25 in. to 15 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make TIMCO	Type plastic	
		Diameter	Slot/Gauze	Length	Set Between
		2	10	5	5 ft. and 10 ft.
Static Water Level					
5 ft. from Land surface Date Measured 10/20/2003					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Tag on well System UTM - Nad83, Zone15, Meters X: 499929 Y: 4876742		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Neat Cement		from 0 to 4 ft.	1 bags
		Grout Material: Bentonite		from 4 to 4.5 ft.	0.5 bags
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number __ HP_ Volts			
		Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Docs property have any not in use and not sealed well(s)?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes					
<input checked="" type="checkbox"/> No					
Well Contractor Certification					
Thein Well Co. 34625 WIEBER, A.					
License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock		Aquifer Quat. Water Table Aquifer			
Last Strat Clay-brown		Depth to Bedrock ft.			
County Well Index Online Report		698974		Printed 6/26/2008 HE-01205-07	

Minnesota Unique Well No.

698975

County Dodge
 Quad Owatonna SE
 Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date
 Update Date 04/25/2006
 Received Date 11/14/2003

Minnesota Statutes Chapter 1031

Well Name MW-3		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		15 ft.	15 ft.	10/20/2003	
107	18 W 28 CBAADD Elevation Method	Drilling Method Auger (non-specified)			
7.5 minute topographic map (+/- 5 feet)					
Well Address FRONT ST W CLAREMONT MN 55924 Geological Material CLAY Color BROWN Hardness MEDIUM From 0 To 15		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Monitor well			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No Above/Below ft.	
		Casing Diameter	Weight	Hole Diameter	
		2 in. to 5 ft.	0.69 lbs./ft.	8.25 in. to 15 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make TIMCO	Type plastic	
		Diameter	Slot/Gauze	Length	Set Between
		2	10	10	5 ft. and 15 ft.
Static Water Level					
5 ft. from Land surface Date Measured 10/20/2003					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Tag on well System UTM - Nad83, Zone15, Meters X: 499937 Y: 4876740		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Neat Cement		from 0 to 4 ft.	1 bags
		Grout Material: Bentonite		from 4 to 4.5 ft.	0.5 bags
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number __ HP_ Volts			
		Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Docs property have any not in use and not sealed well(s)?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes					
<input checked="" type="checkbox"/> No					
Well Contractor Certification					
Thein Well Co. 34625 WIEBER, A.					
License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock		Aquifer Quat. Water Table Aquifer			
Last Strat Clay-brown		Depth to Bedrock ft.			
County Well Index Online Report		698975		Printed 6/26/2008 HE-01205-07	

Minnesota Unique Well No.

726344

County Dodge
 Quad Owatonna SE
 Quad ID S2D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/05/2005
 Update Date 04/25/2006
 Received Date 07/25/2005

Well Name MW-4 Township Range Dir Section Subsections Elevation 1282 ft. 107 18 W 28 CABCB Elevation Method topographic map (+/- 5 feet)		Well Depth 12 ft. Depth Completed 12 ft. Date Well Completed 06/13/2005
Well Address 317 FRONT ST W CLAREMONT MN 55924		Drilling Method Other
Geological Material SANDY CLAY SANDY CLAY WET SAND LENSES SANDY CLAY WET SAND LENSES		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
Color BLK/BRN Hardness M.SOFT From 0 To 4		Use Monitor well
Color BROWN Hardness SOFT From 4 To 8		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.
Color BROWN Hardness MEDIUM From 8 To 12		Casing Diameter 2 in. to 2 ft. Weight lbs./ft. Hole Diameter 2 in. to 12 ft.
Open Hole from ft. to ft.		Screen YES Make TIMCO Type plastic
Diameter 2 Slot/Gauze 10 Length 10 Set Between 2 ft. and 12 ft.		Static Water Level 5 ft. from Land surface Date Measured 06/13/2005
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS DRILLING METHOD: DIRECT PUSH PROBE		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0.5 to 1.5 ft. 1 bags Grout Material: Neat Cement from to 0.5 ft. 0.5 bags
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Unique Number Verification Tag on well Date 04/25/2006		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material
System UTM - Nad83, Zone15, Meters X: 499950 Y: 4876722		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
First Bedrock Last Strat Clay & sand-brown		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		Well Contractor Certification Thein Well Co. 34625 HILBRANDS, B. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		726344 Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.

20W0005430

County Dodge
 Quad Claremont
 Quad ID 51C

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/26/1993
 Update Date 07/26/1993
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name LOIUS, CHARLES Township Range Dir Section Subsections Elevation 1265 ft. 107 18 W 33 ABBADB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth Depth Completed Date Well Completed ft. ft. ft.</p> <p>Drilling Method</p>
<p>Geological Material Color Hardness From To</p>	<p>Drilling Fluid Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Domestic</p>
	<p>Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p>
	<p>Casing Diameter Weight Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen Diameter Slot/Gauze Length Set Between</p>
	<p>Static Water Level ft. from Date Measured</p>
	<p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>First Bedrock Aquifer Last Strat Depth to Bedrock ft.</p>	<p>County Well Index Online Report 20W0005430 Printed 6/26/2008 HE-01205-07</p>

SITE SUMMARY

Site Name: Cottage Grove

Fire Department: Cottage Grove Fire Department
8641 80th Street S.
Cottage Grove, MN 55016

Site Contact: Bob Byerly, Fire Chief
651-458-2860

Training Location: Fire Station 2, 8641 80th Street S., Cottage Grove

Type of foam used in training: AR-AFFF: 3M

Foam training frequency: Very seldom

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: 5 gallons
Class A: 30 gallons

Nearest surface water: Intermittent stream less than 1/4 mile to the east

Nearest wetland: Less than 1/4 mile to the east

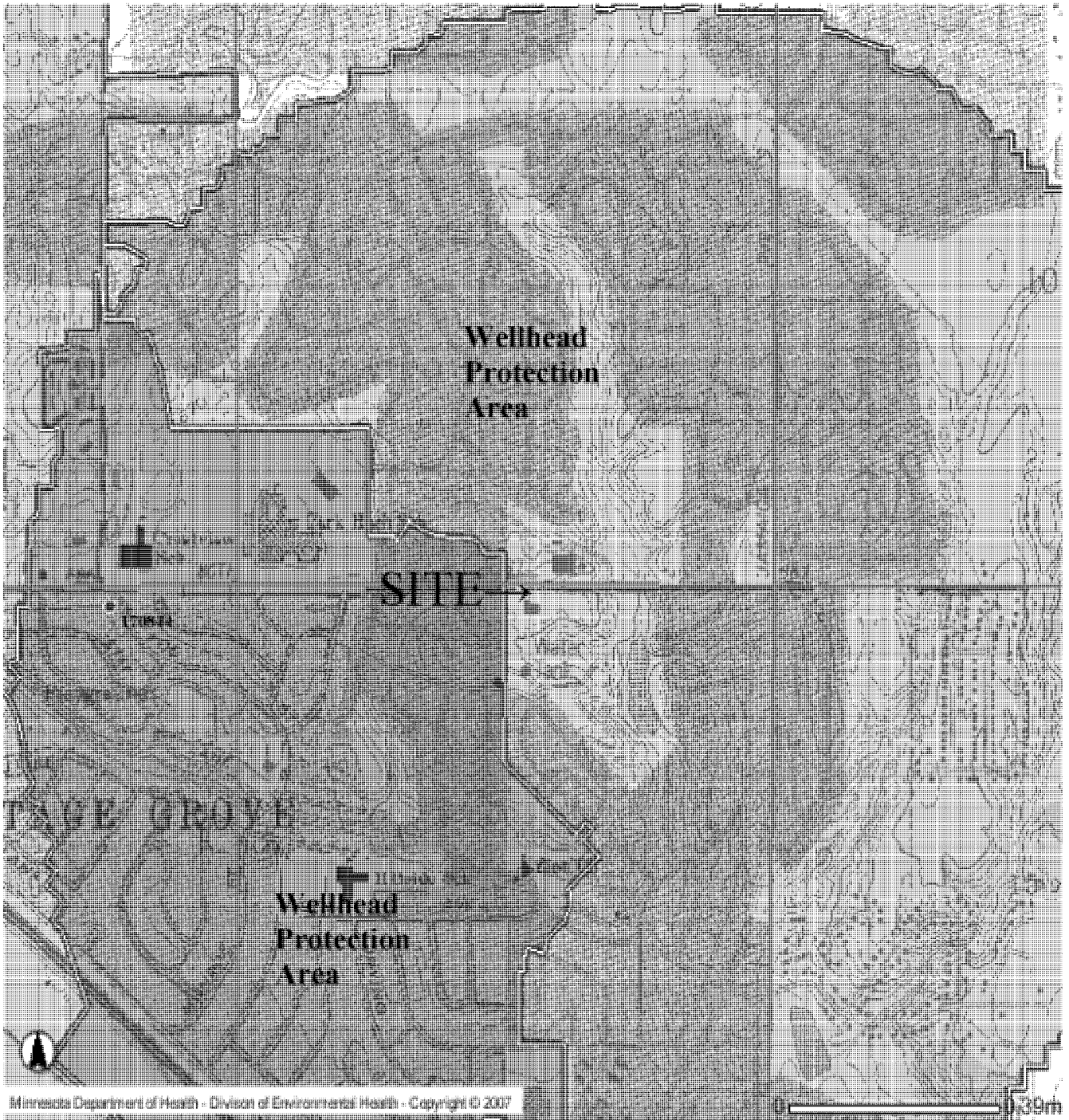
Karst Area: Training site appears to be in active karst area along the river in southwestern Washington County

Nearest water well: 1/2 to 3/4 mile west

Nearest Wellhead Protection Area: Training site is in or adjacent to a Wellhead Protection Area

SITE RANKING: 27

COTTAGE GROVE CWI Well Map



Cottage Grove What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

Minnesota Unique Well No.

170844

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/01/1989
 Update Date 03/26/1996
 Received Date

<p>Well Name Township Range Dir Section Subsections Elevation 872. ft. 27 21 W 17 AABBC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth Depth Completed Date Well Completed 205 ft. 205 ft. 10/29/1980</p> <p>Drilling Method Non-specified Rotary</p>									
<p>Geological Material Color Hardness From To SAND & GRAVEL BROWN MEDIUM 0 82 LIMEROCK YELLOW HARD 82 140 SANDROCK WHITE MEDIUM 140 146 LIMEROCK YELLOW HARD 146 205</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p>									
	<p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.</p>									
	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Casing Diameter</td> <td style="width:33%;">Weight</td> <td style="width:33%;">Hole Diameter</td> </tr> <tr> <td>8 in. to 85 ft.</td> <td>lbs./ft.</td> <td>12 in. to 85 ft.</td> </tr> <tr> <td>4 in. to 184 ft.</td> <td>lbs./ft.</td> <td>8 in. to 184 ft.</td> </tr> </table>	Casing Diameter	Weight	Hole Diameter	8 in. to 85 ft.	lbs./ft.	12 in. to 85 ft.	4 in. to 184 ft.	lbs./ft.	8 in. to 184 ft.
	Casing Diameter	Weight	Hole Diameter							
	8 in. to 85 ft.	lbs./ft.	12 in. to 85 ft.							
	4 in. to 184 ft.	lbs./ft.	8 in. to 184 ft.							
	<p>Open Hole from 184 ft. to 205 ft.</p>									
	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Screen NO</td> <td style="width:25%;">Make</td> <td style="width:25%;">Type</td> <td style="width:25%;"></td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> </table>	Screen NO	Make	Type		Diameter	Slot/Gauze	Length	Set Between	
	Screen NO	Make	Type							
	Diameter	Slot/Gauze	Length	Set Between						
<p>Static Water Level 74 ft. from Land surface Date Measured 10/29/1980</p>										
<p>PUMPING LEVEL (below land surface) 74 ft. after hrs. pumping 15 g.p.m.</p>										
<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>										
<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 184 ft. 5 yds.</p>										
<p>Nearest Known Source of Contamination 75 feet S direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>										
<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/29/1980 Manufacturer's name FAIRBANKS Model number 10015 HP 1 Volts 230 Length of drop Pipe 126 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized</p>										
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>										
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>										
<p>Well Contractor Certification Maher Well Co. 19301 MAHER, R. License Business Name Lic. Or Reg. No. Name of Driller</p>										
<p>County Well Index Online Report</p>	<p style="text-align: center;">170844</p>									

Printed 6/27/2008
 HE-01205-07

SITE SUMMARY

Site Name: Dunnell

Fire Department: Dunnell-Lake Fremont Fire Department
PO Box 216
Dunnell, MN 56127

Site Contact: Alan Helmers, Fire Chief
507-695-2950

Training Location: Old ball diamond, N. Seeley Avenue, Dunnell

Type of foam used in training: AFFF: Specified as Silv-ex, assumed unidentified

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF (Silv-ex/unidentified): 20 gallons
Class A (Silv-ex): 2 gallons

Nearest surface water: Intermittent stream 1/4 to 1/3 mile to the southeast

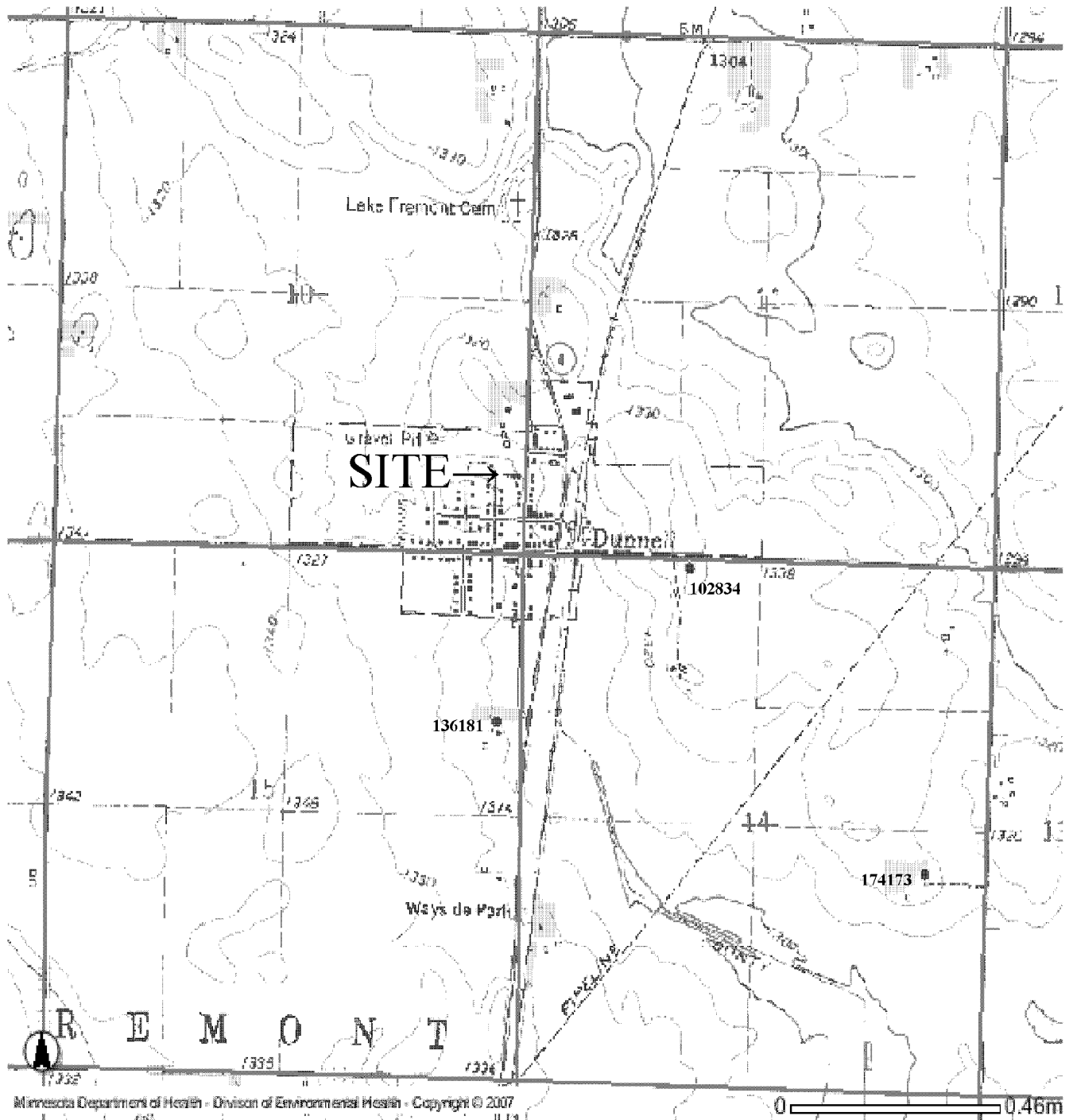
Nearest wetland: 1/4 to 1/3 mile to the northeast

Nearest water well: 1/3 to 1/2 mile southeast

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 5

DUNNELL CWI Well Map



Dunnell What's In My Neighborhood Map

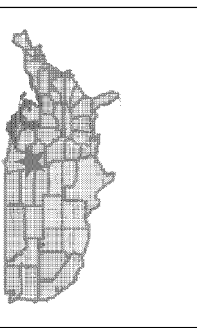


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

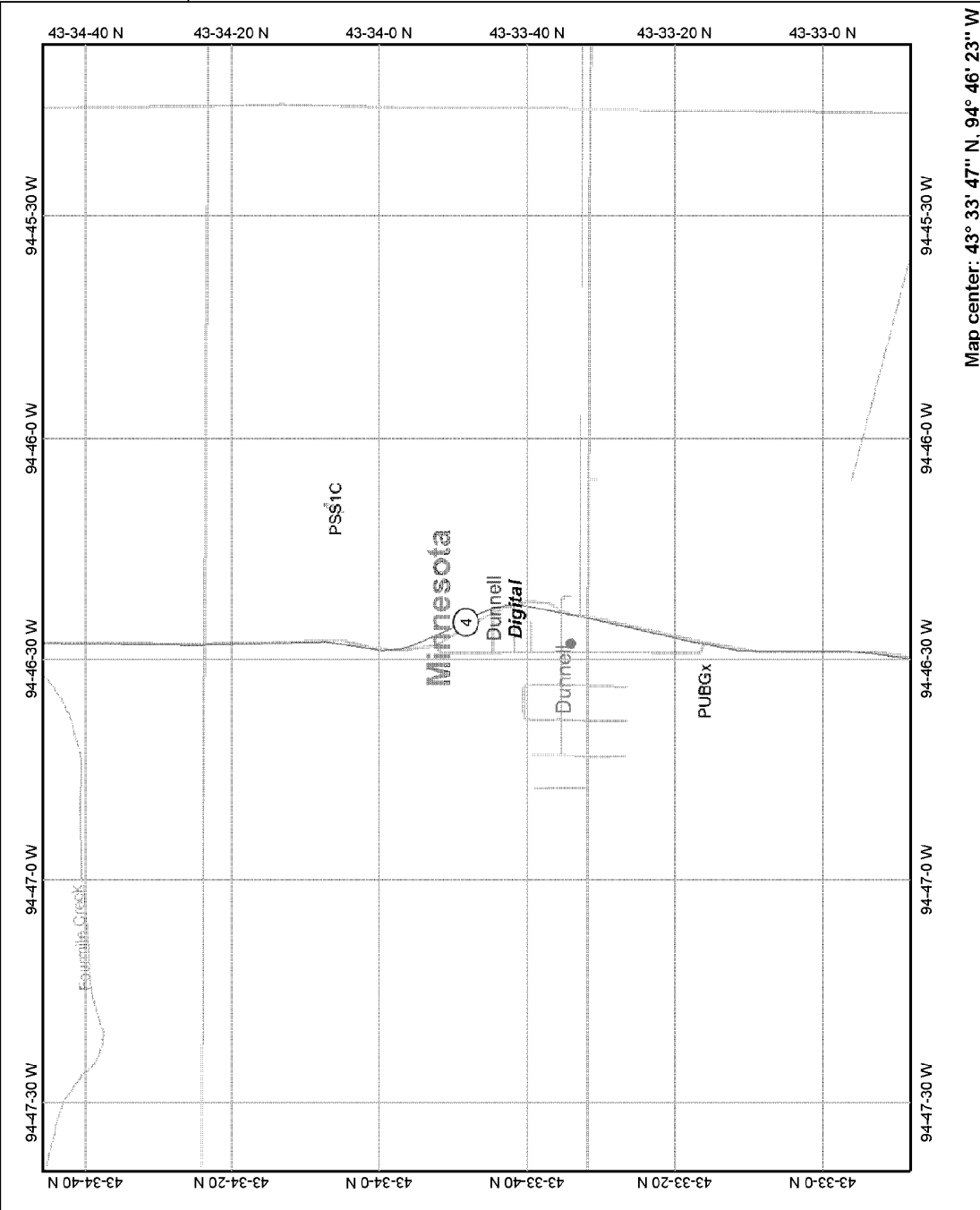
Dunnell Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:25,389



This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

102834

County Martin
 Quad Dunnell
 Quad ID 16D

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 07/29/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name NELSON, H.R.		Well Depth 234 ft.	Depth Completed 234 ft.	Date Well Completed 11/09/1976
Township Range Dir Section Subsections Elevation 101 33 W 14 BABAAB		Elevation Method 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method	Non-specified Rotary	
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type	Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1.5 ft.	
		Casing Diameter	Weight	Hole Diameter
		5 in. to 230 ft.	lbs./ft.	
		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
		Diameter	Slot/Gauze	Length
		5	15	5
		Set Between 230 ft. and 234 ft.		
		Static Water Level 180 ft. from land surface Date Measured 11/09/1976		
		PUMPING LEVEL (below land surface) 190 ft. after 24 hrs. pumping 12 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Cuttings from 0 to 200 ft.		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Plat Book Date N/A System UTM - Nad83, Zone15, Meters X: 357245 Y: 4824403		Nearest Known Source of Contamination 200 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed 11/11/1976 Manufacturer's name AEROMOTOR Model number SD-12-100 HP 1 Volts 230 Length of drop Pipe 204 ft. Capacity 15 g.p.m Type Submersible Material Plastic		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Cliff's Well Service 90325 CHRISTENSEN,B License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock	Aquifer Quat. Buried Artes. Aquifer			
Last Strat Sand	Depth to Bedrock ft.			

County Well Index Online Report	102834	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

136181

County Martin
 Quad Dunnell
 Quad ID 16D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/13/1988
 Update Date 07/29/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name JANSSEN, WALTER		Well Depth 218 ft.	Depth Completed 218 ft.	Date Well Completed 04/24/1979																																								
Township Range Dir Section Subsections Elevation 101 33 W 15 ADADEBB Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>SAND & CLAY</td><td>BROWN</td><td>SOFT</td><td>0</td><td>25</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>SOFT</td><td>25</td><td>85</td></tr> <tr><td>CLAY & SAND</td><td>BLU/GRY</td><td>SOFT</td><td>85</td><td>100</td></tr> <tr><td>CLAY & ROCK</td><td>BLUE</td><td>HARD</td><td>100</td><td>130</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>HARD</td><td>130</td><td>200</td></tr> <tr><td>CLAY & SAND</td><td>BLU/YEL</td><td>SOFT</td><td>200</td><td>205</td></tr> <tr><td>SAND</td><td>GRAY</td><td>SOFT</td><td>205</td><td>218</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	SAND & CLAY	BROWN	SOFT	0	25	CLAY	BLUE	SOFT	25	85	CLAY & SAND	BLU/GRY	SOFT	85	100	CLAY & ROCK	BLUE	HARD	100	130	CLAY	BLUE	HARD	130	200	CLAY & SAND	BLU/YEL	SOFT	200	205	SAND	GRAY	SOFT	205	218	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																						
		SAND & CLAY	BROWN	SOFT	0	25																																						
		CLAY	BLUE	SOFT	25	85																																						
		CLAY & SAND	BLU/GRY	SOFT	85	100																																						
		CLAY & ROCK	BLUE	HARD	100	130																																						
		CLAY	BLUE	HARD	130	200																																						
		CLAY & SAND	BLU/YEL	SOFT	200	205																																						
		SAND	GRAY	SOFT	205	218																																						
		Use Domestic																																										
Casing Type Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1.5 ft.																																												
Casing Diameter 5 in. to 208 ft.		Weight 14.95 lbs./ft.	Hole Diameter 8 in. to 208 ft.																																									
Open Hole from ft. to ft.																																												
Screen YES Make JOHNSON Type stainless steel																																												
Diameter 4		Slot/Gauze 18	Length 10	Set Between 208 ft. and 218 ft.																																								
Static Water Level 138 ft. from Land surface Date Measured 04/24/1979																																												
PUMPING LEVEL (below land surface) 150 ft. after 15 hrs. pumping 12 g.p.m.																																												
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																												
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Name on mailbox System UTM - Nad83, Zone15, Meters X: 356567 Y: 4823932</p>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																										
		Grout Material: Cuttings from to ft.																																										
		Nearest Known Source of Contamination 100 feet S direction Septic tank/drain field type																																										
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																										
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name AEROMOTOR Model number SD-19 HP 1.5 Volts 230 Length of drop Pipe 160 ft. Capacity 19 g.p.m Type Submersible Material Plastic																																										
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																										
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																										
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		First Bedrock		Aquifer Quat. Buried Artes. Aquifer																																								
		Last Strat Sand-gray		Depth to Bedrock ft.																																								
County Well Index Online Report		136181		Printed 6/27/2008 HE-01205-07																																								

Minnesota Unique Well No.

174173

County Martin
 Quad Dunnell
 Quad ID 16D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 07/29/2002
 Received Date

<p>Well Name ANDERSON, DAVE Township Range Dir Section Subsections Elevation 1322 ft. 101 33 W 14 DABDDDB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 198 ft.</td> <td style="width:33%;">Depth Completed 198 ft.</td> <td style="width:33%;">Date Well Completed 06/25/1981</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 198 ft.	Depth Completed 198 ft.	Date Well Completed 06/25/1981	Drilling Method Non-specified Rotary																																																																			
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<p>Well Address DUNNELL MN 56127</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>30</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>SOFT</td> <td>30</td> <td>40</td> </tr> <tr> <td>CLAY + SAND + ROCK</td> <td>BLUE</td> <td>SOFT</td> <td>40</td> <td>43</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>SOFT</td> <td>43</td> <td>115</td> </tr> <tr> <td>CLAY + SAND</td> <td>BLUE</td> <td>SOFT</td> <td>115</td> <td>145</td> </tr> <tr> <td>CLAY ROCKS</td> <td>BLUE</td> <td>HARD</td> <td>145</td> <td>185</td> </tr> <tr> <td>SAND ROCKS</td> <td>GRAY</td> <td>SOFT</td> <td>185</td> <td>198</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	CLAY	BROWN	SOFT	0	30	CLAY	BLUE	SOFT	30	40	CLAY + SAND + ROCK	BLUE	SOFT	40	43	CLAY	BLUE	SOFT	43	115	CLAY + SAND	BLUE	SOFT	115	145	CLAY ROCKS	BLUE	HARD	145	185	SAND ROCKS	GRAY	SOFT	185	198	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid --</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Domestic</td> </tr> <tr> <td colspan="2">Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1.5 ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter 5 in. to 193 ft.</td> <td style="width:33%;">Weight lbs./ft.</td> <td style="width:33%;">Hole Diameter 8 in. to 198 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td style="width:25%;">Diameter 5</td> <td style="width:25%;">Slot/Gauze 20</td> <td style="width:25%;">Length 5</td> <td style="width:25%;">Set Between 193 ft. and 198 ft.</td> </tr> <tr> <td colspan="4">Static Water Level 153 ft. from Land surface Date Measured 06/25/1981</td> </tr> <tr> <td colspan="4">PUMPING LEVEL (below land surface) 155 ft. after 20 hrs. pumping 18 g.p.m.</td> </tr> <tr> <td colspan="4">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Domestic		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1.5 ft.		Casing Diameter 5 in. to 193 ft.	Weight lbs./ft.	Hole Diameter 8 in. to 198 ft.	Open Hole from ft. to ft.			Screen YES Make JOHNSON Type stainless steel			Diameter 5	Slot/Gauze 20	Length 5	Set Between 193 ft. and 198 ft.	Static Water Level 153 ft. from Land surface Date Measured 06/25/1981				PUMPING LEVEL (below land surface) 155 ft. after 20 hrs. pumping 18 g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
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SITE SUMMARY

Site Name: Ellsburg

Fire Department: Ellsburg Volunteer Fire Department
1102 Mink Road
Cotton, MN 55724

Site Contact: Brady Miller, Assistant Fire Chief
218-482-3777

Training Location: Melrude Fire Hall, 1763 Melrude Road, Melrude

Type of foam used in training: AFFF: U.S. Foam

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: not specified

Nearest surface water: Unnamed creek less than 1/4 mile south

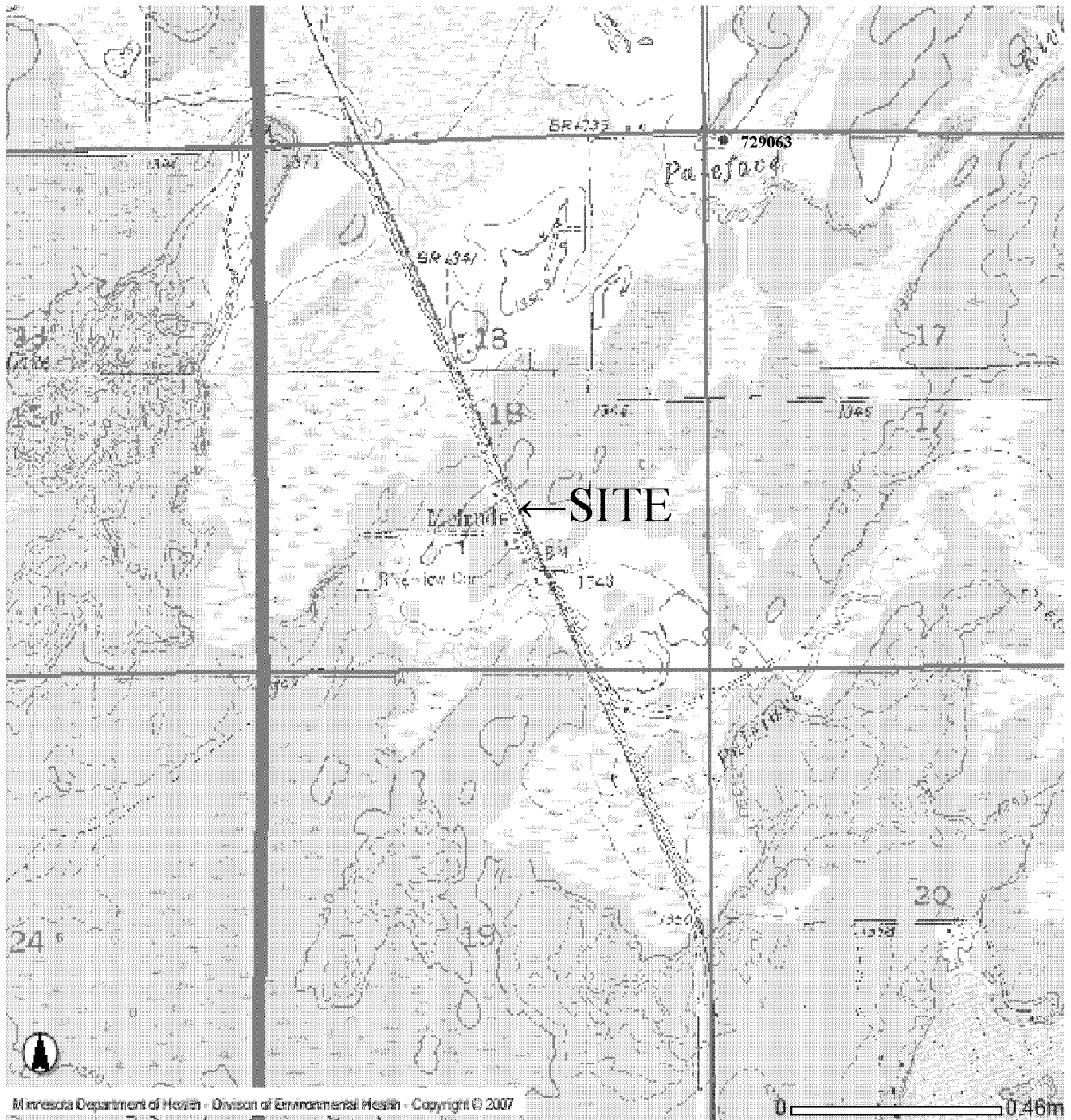
Nearest wetland: Less than 1/4 south and southeast

Nearest water well: 1/2 to 1 mile northeast

Nearest Wellhead Protection Area: More than 1 mile

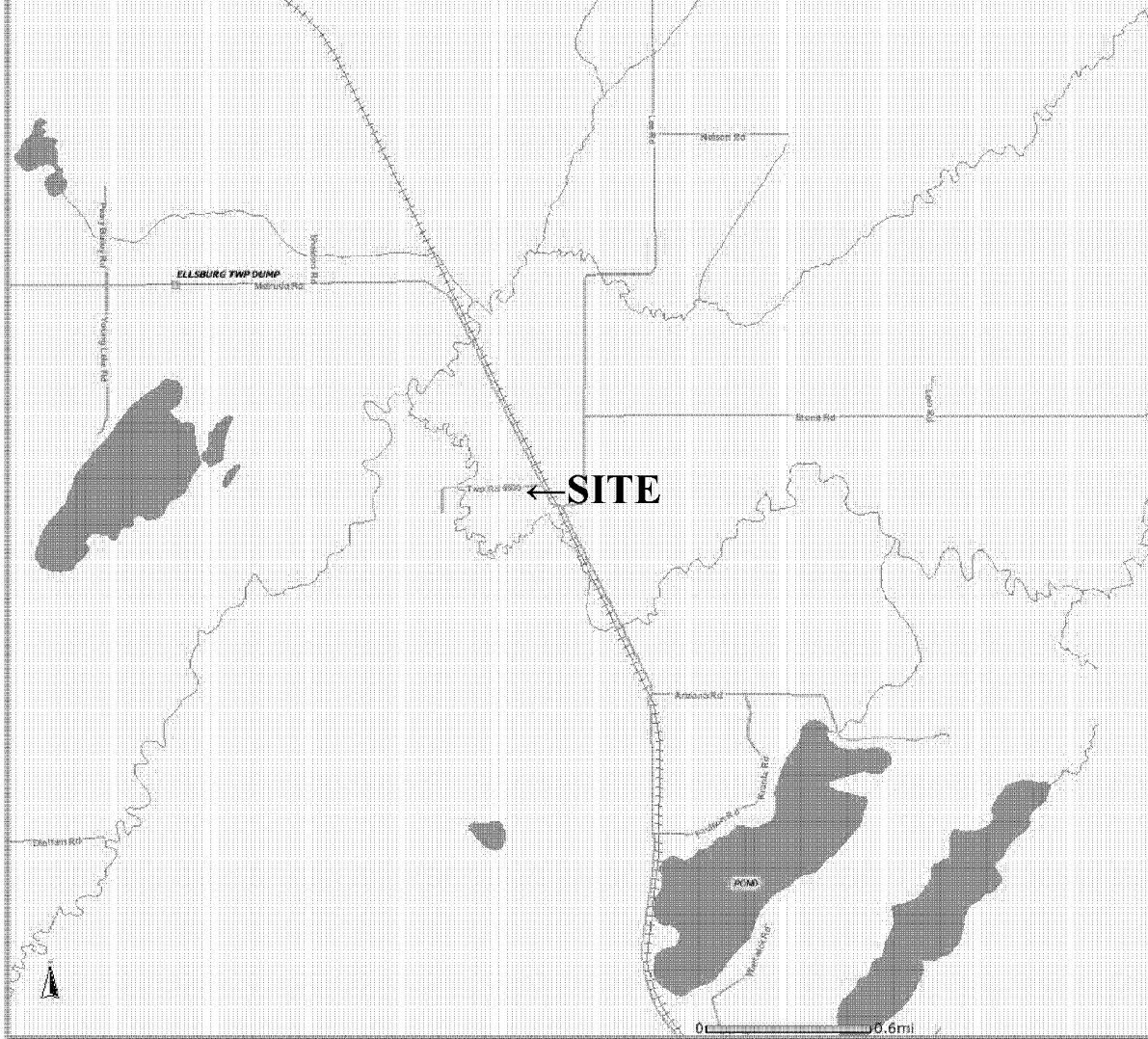
SITE RANKING: 9

ELLSBURG (MELRUDE) CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Ellsburg What's In My Neighborhood Map

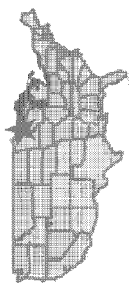
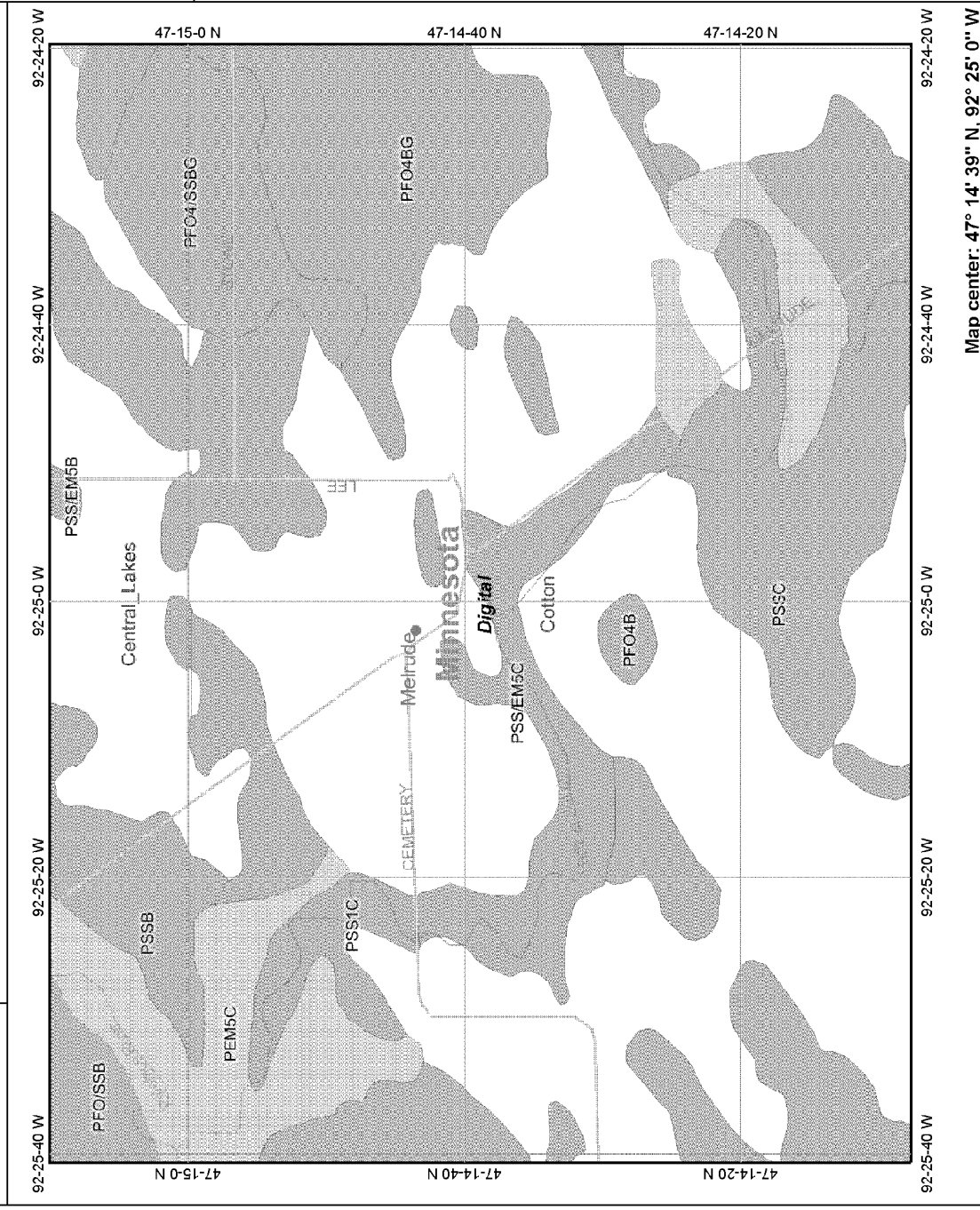


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Ellsburg (Melrude) Wetland Map



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
 - South America
 - North America



Scale: 1:13,471

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Map center: 47° 14' 39" N, 92° 25' 0" W

SITE SUMMARY

Site Name: Evansville

Fire Department: Evansville Fire Department
PO Box 367
Evansville, MN 56326

Site Contact: Tim Anderson, 2nd Assistant Fire Chief
320-834-4995

Training Location: Behind fire hall, 106 State Street, East Side Addition in a cul-de-sac (new addition, east of town, east end of Main Street)

Type of foam used in training: AR-AFFF: National Foam Universal Gold 1 to 3%

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AR-AFFF: not specified

Nearest surface water: Intermittent stream 1/4 to 1/2 mile to the south-southeast

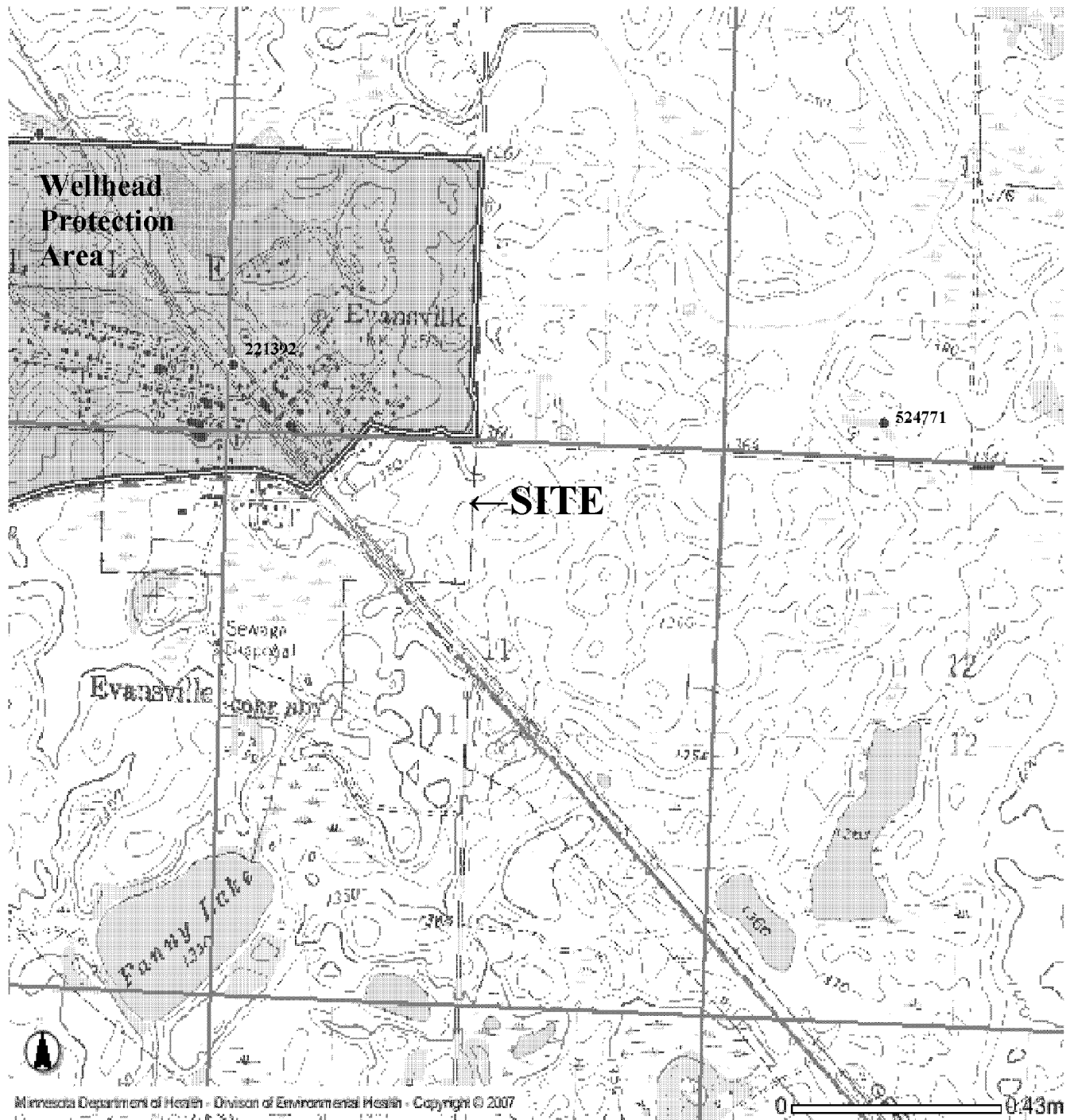
Nearest wetland: Less than 1/4 mile north

Nearest water well: Approximately 1/2 mile northwest

Nearest Wellhead Protection Area: Less than 1/4 mile north

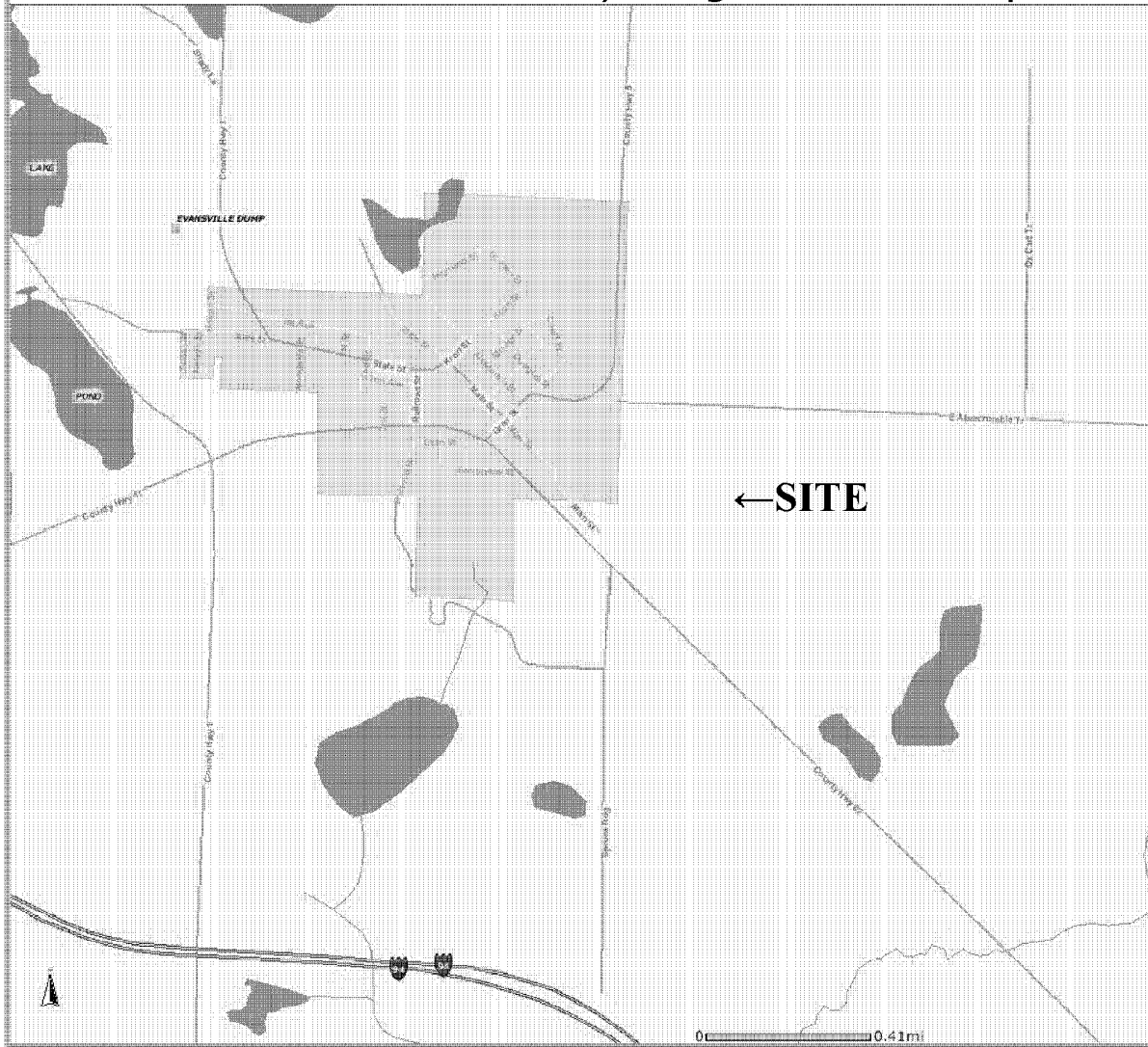
SITE RANKING: 11

EVANSVILLE CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Evansville What's In My Neighborhood Map

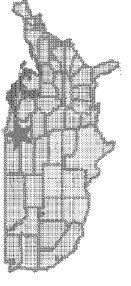
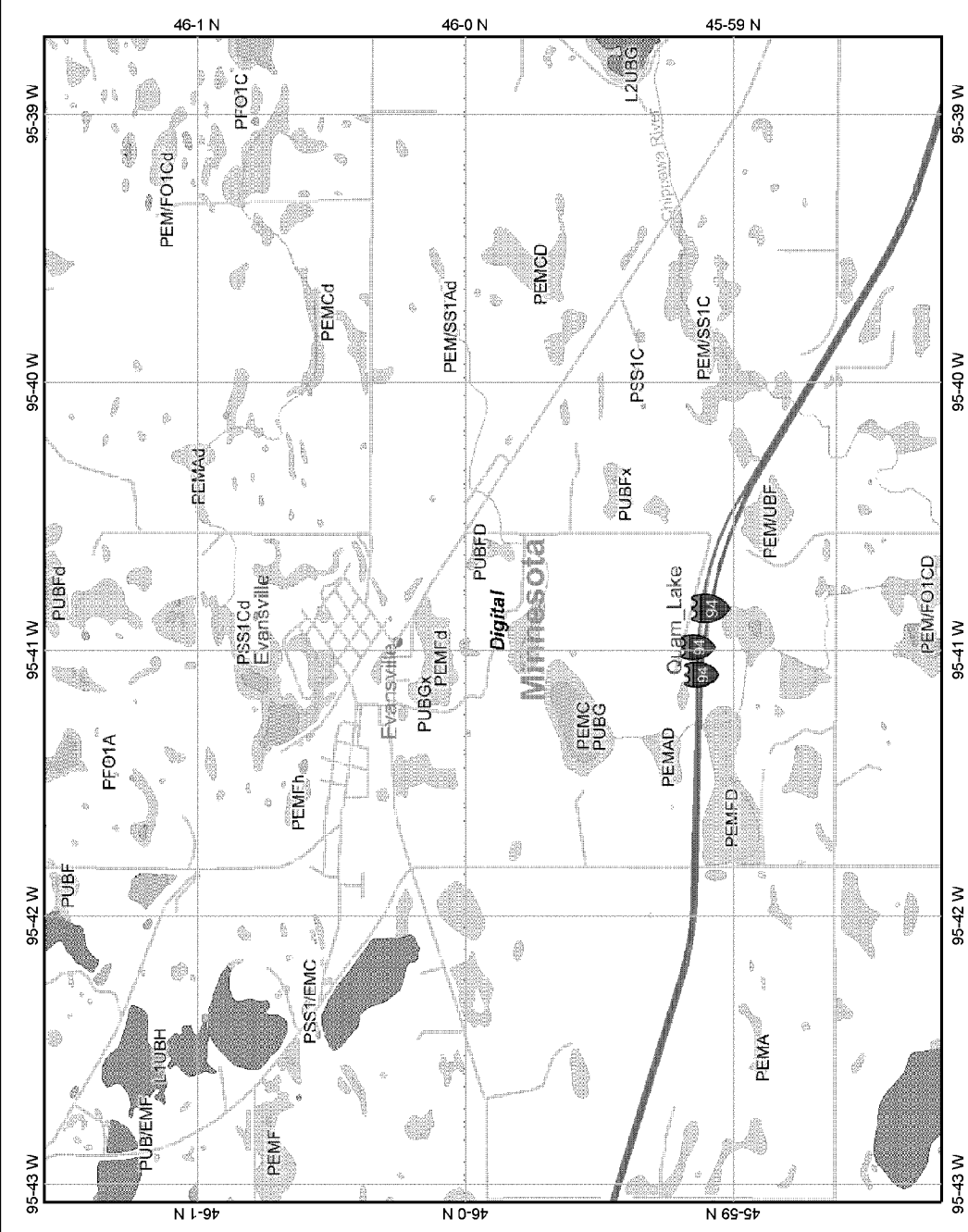


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Evansville Wetland Map



Legend

- Interstate
- Major Roads
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- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:43,495

Map center: 45° 59' 54" N, 95° 40' 53" W

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Minnesota Unique Well No.

221392

County Douglas
 Quad Evansville
 Quad ID 199C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/07/1988
 Update Date 05/06/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name GREAT NORTHERN RR		Well Depth 202 ft.	Depth Completed 200 ft.	Date Well Completed 07/28/1926
Township Range Dir Section Subsections Elevation 129 40 W 2 CCBCCC		Elevation Method topographic map (+/- 5 feet)		
Well Address EVANSVILLE MN		Drilling Fluid --		
Geological Material		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
SURFACE SOIL		Use Abandoned Status Sealed		
HARDPAN & CLAY MIXED		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
STREAK OF GRAVEL		Casing Diameter 12 in. to 193 ft. Weight lbs./ft. Hole Diameter		
QUICKSAND		Open Hole from ft. to ft.		
HARDPAN		Screen YES Make JOHNSON Type		
FINE SAND & WATER BEARING GRAVEL		Diameter 12 Slot/Gauze 24 Length 0 Set Between 193 ft. and 200 ft.		
COARSE WATER BEARING GRAVEL		Static Water Level 70 ft. from Land surface Date Measured 07/28/1926		
CLAY		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
REMARKS WELL SEALED 09-29-1993 BY 71015 ORIGINAL USE IN - INDUSTRIAL		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification N/A Date 03/06/2003		Nearest Known Source of Contamination _feet _direction _type		
System UTM - Nad83, Zone15, Meters X: 292017 Y: 5098403		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		
First Bedrock Aquifer Quat. Buried Artes. Aquifer		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Last Strat Clay Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Owner 99999 License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		221392		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

524771

County Douglas
 Quad Evansville
 Quad ID 199C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 09/15/1993
 Update Date 02/04/1998
 Received Date

Minnesota Statutes Chapter 103I

Well Name LARSON, RONALD		Well Depth 199 ft.	Depth Completed 199 ft.	Date Well Completed 199306																				
Township Range Dir Section Subsections Elevation 129 40 W 1 CDCDBB		Elevation Method 1382 ft. 7.5 minute topographic map (+/- 5 feet)																						
		Drilling Method Non-specified Rotary																						
Well Address 19067 ABERCROMBIE TR EVANSVILLE MN <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>YELLOW</td> <td></td> <td>0</td> <td>30</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>30</td> <td>169</td> </tr> <tr> <td>SAND</td> <td></td> <td></td> <td>169</td> <td>199</td> </tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CLAY	YELLOW		0	30	CLAY	BLUE		30	169	SAND			169	199	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
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		CLAY	BLUE		30	169																		
		SAND			169	199																		
		Use Domestic																						
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																						
		Casing Diameter 5 in. to 191 ft.		Weight lbs./ft.	Hole Diameter																			
		Open Hole from ft. to ft.																						
		Screen YES Make JOHNSON Type stainless steel																						
Diameter 5		Slot/Gauze 20	Length 8	Set Between 191 ft and 199 ft																				
Static Water Level 105 ft. from Land surface Date Measured 199306																								
PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 75 g.p.m.																								
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																								
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Tag on well Date N/A System UTM - Nad83, Zone15. Meters X: 294134 Y: 5098236		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 35 ft. 0																						
		Nearest Known Source of Contamination 120 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 06/00/1993 Manufacturer's name F + W Model number HP 0.75 Volts 230 Length of drop Pipe 160 ft. Capacity 10 g.p.m Type Material																						
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
First Bedrock Last Strat Sand Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Well Contractor Certification Waskosky Well Co. 26130 WASKOSKY, T. License Business Name Lic. Or Reg. No. Name of Driller																						
		County Well Index Online Report 524771 Printed 6/27/2008 IIE-01205-07																						

SITE SUMMARY

Site Name: Fairmont

Fire Department: Fairmont Fire Department
PO Box 386
Fairmont, MN 56031

Site Contact: Not provided, back side of questionnaire not completed

Training Location: City shop parking lot, 417 E. Margaret Street, Fairmont

Type of foam used in training: Foam type not specified

Foam training frequency: Quarterly

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified

Nearest surface water: Buffalo Creek approximately 1/8 mile to the north

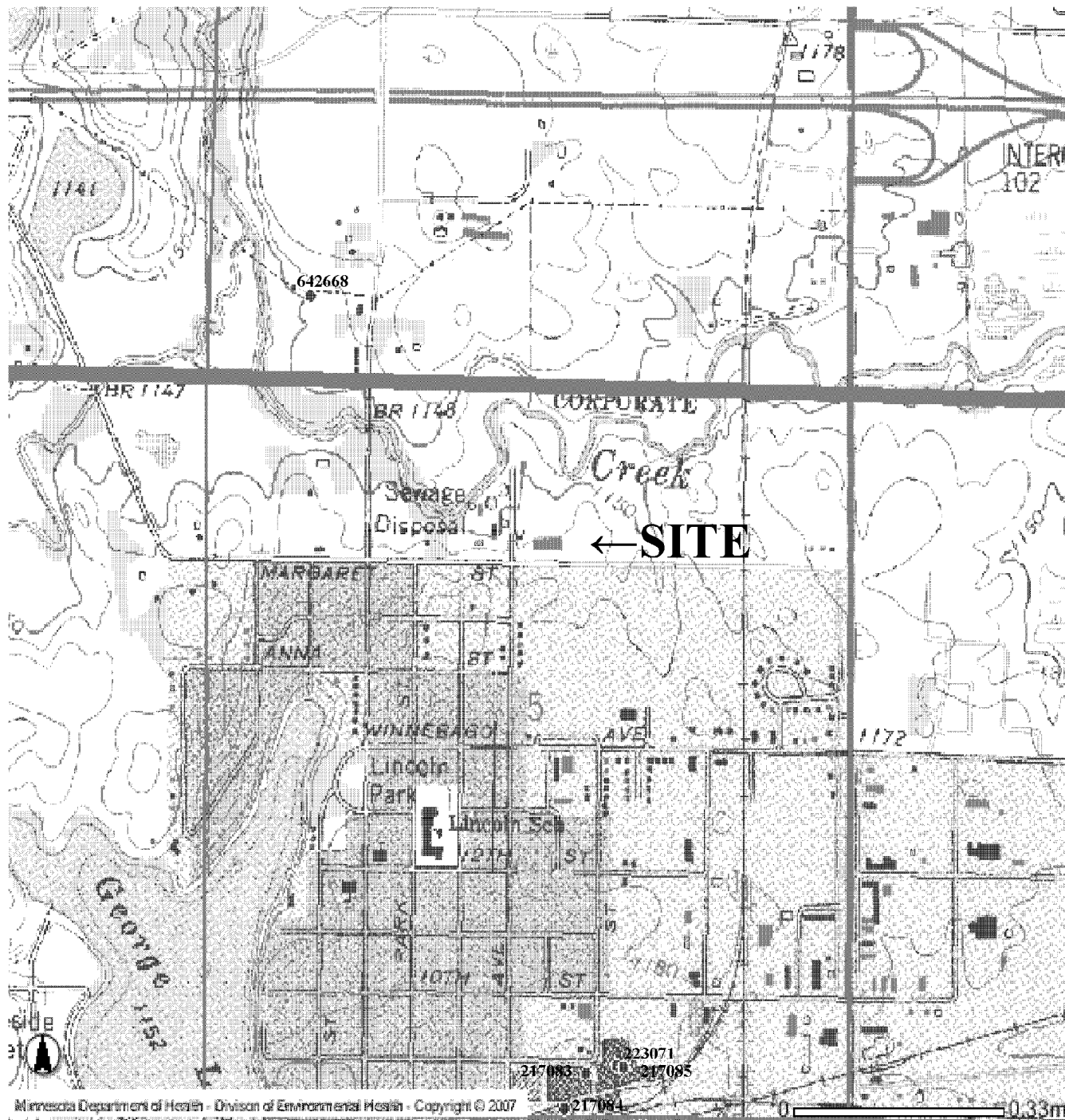
Nearest wetland: Approximately 1/8 mile north

Nearest water well: 1/3 to 1/2 mile south

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 21

FAIRMONT CWI Well Map



Fairmont What's In My Neighborhood Map

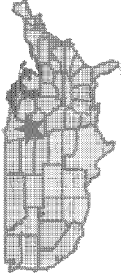
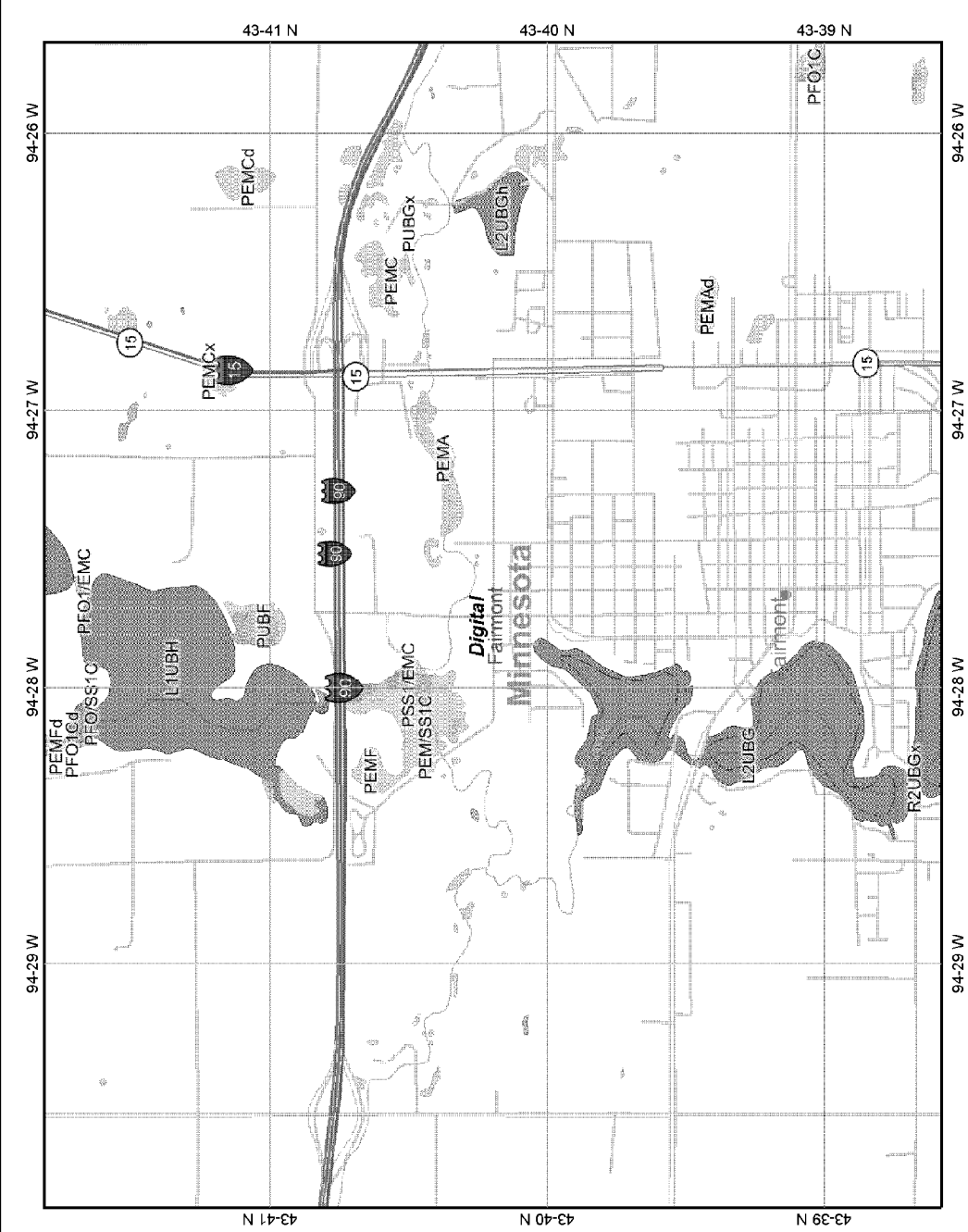


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Fairmont Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:42,049

Map center: 43° 40' 12" N, 94° 27' 47" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

217083

County Martin
 Quad Fairmont
 Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/13/1988
 Update Date 07/30/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name STOKELY VAN CAMP INC.				Well Depth 285 ft.		Depth Completed 285 ft.		Date Well Completed 00/00/1958																																																																																						
Township Range Dir Section Subsections Elevation 102 30 W 5 DCCDAA Elevation Method topographic map (+/- 5 feet)				Drilling Method --																																																																																										
<table border="0" style="width:100%;"> <tr> <td style="width:20%;">Geological Material</td> <td style="width:10%;">Color</td> <td style="width:10%;">Hardness</td> <td style="width:10%;">From</td> <td style="width:10%;">To</td> </tr> <tr> <td>FILL</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>CLAY</td> <td></td> <td></td> <td>5</td> <td>88</td> </tr> <tr> <td>HARDPAN BOULDERS</td> <td></td> <td></td> <td>88</td> <td>102</td> </tr> <tr> <td>SAND</td> <td></td> <td></td> <td>102</td> <td>103</td> </tr> <tr> <td>SOFT CLAY</td> <td></td> <td>SOFT</td> <td>103</td> <td>107</td> </tr> <tr> <td>CLAY, GRAVEL</td> <td></td> <td></td> <td>107</td> <td>118</td> </tr> <tr> <td>SANDY CLAY</td> <td></td> <td></td> <td>118</td> <td>170</td> </tr> <tr> <td>DIRTY SAND</td> <td></td> <td></td> <td>170</td> <td>173</td> </tr> <tr> <td>SANDY CLAY</td> <td></td> <td></td> <td>173</td> <td>205</td> </tr> <tr> <td>DIRTY SAND</td> <td></td> <td></td> <td>205</td> <td>209</td> </tr> <tr> <td>SANDY CLAY</td> <td></td> <td></td> <td>209</td> <td>216</td> </tr> <tr> <td>SAND W/CLAY LAYERS</td> <td></td> <td></td> <td>216</td> <td>250</td> </tr> <tr> <td>CLEAN SAND</td> <td></td> <td></td> <td>250</td> <td>263</td> </tr> <tr> <td>SAND, SOME CLAY</td> <td></td> <td></td> <td>263</td> <td>270</td> </tr> <tr> <td>CLEAN SAND</td> <td></td> <td></td> <td>270</td> <td>282</td> </tr> <tr> <td>FINE SILTY SAND</td> <td></td> <td></td> <td>282</td> <td>285</td> </tr> </table>				Geological Material	Color	Hardness	From	To	FILL			0	5	CLAY			5	88	HARDPAN BOULDERS			88	102	SAND			102	103	SOFT CLAY		SOFT	103	107	CLAY, GRAVEL			107	118	SANDY CLAY			118	170	DIRTY SAND			170	173	SANDY CLAY			173	205	DIRTY SAND			205	209	SANDY CLAY			209	216	SAND W/CLAY LAYERS			216	250	CLEAN SAND			250	263	SAND, SOME CLAY			263	270	CLEAN SAND			270	282	FINE SILTY SAND			282	285	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
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Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																														
Well Contractor Certification Tri-state Well Co. 27118 License Business Name Lic. Or Reg. No. Name of Driller																																																																																														
First Bedrock				Aquifer Quat. Buried Artes. Aquifer																																																																																										
Last Strat Sand & silt				Depth to Bedrock ft.																																																																																										
County Well Index Online Report				217083		Printed 6/27/2008 HE-01205-07																																																																																								

Minnesota Unique Well No.

217084

County Martin
 Quad Fairmont
 Quad ID 14B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 05/06/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name STOKELY VAN CAMP INC.		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		197 ft.	197 ft.	05/00/1957
102	30 W 5 DCCCDD	Elevation Method topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Abandoned Status Sealed		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		12 in. to 152 ft.	lbs./ft.	
		Open Hole from ft. to ft.		
		Screen YES Make Type		
Geological Material	Color	Hardness	From	To
BLACK SOIL	BLACK		0	5
YELLOW CLAY	YELLOW		5	21
BLUE CLAY	BLUE		21	110
YELLOW GRAVEL	YELLOW		110	115
YELLOW SANDY CLAY	YELLOW		115	147
YELLOW SAND	YELLOW		147	197
		Diameter	Slot/Gauze	Length
		0	18	45
		Set Between	0 ft. and ft.	
		Static Water Level		
		70 ft. from Land surface Date Measured 00/00/1966		
		PUMPING LEVEL (below land surface)		
		107 ft. after hrs. pumping 533 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
WELL SEALED 09-12-1989 BY 27058				
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number Verification N/A		Date N/A		
System UTM - Nad83, Zone 15, Meters		X: 382581 Y: 4835090		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe 130 ft. Capacity g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock		Aquifer Quat. Buried Artes. Aquifer		
Last Strat Sand-yellow		Depth to Bedrock ft.		
County Well Index Online Report		217084		Printed 6/27/2008 HF-01205-07

Minnesota Unique Well No.

217085

County Martin
 Quad Fairmont
 Quad ID 14B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 07/30/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name STOKELY VAN CAMP				Well Depth	Depth Completed	Date Well Completed																																																																	
Township Range Dir Section Subsections Elevation				1190 ft.	181 ft.	181 ft.																																																																	
102	30	W	5	DCDBCA	Elevation Method	7.5 minute topographic map (+/- 5 feet)																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BLACK DIRT</td><td>BLACK</td><td></td><td>0</td><td>7</td></tr> <tr><td>YELLOW CLAY</td><td>YELLOW</td><td></td><td>7</td><td>17</td></tr> <tr><td>SAND</td><td></td><td></td><td>17</td><td>21</td></tr> <tr><td>MUSHY CLAY</td><td></td><td></td><td>21</td><td>23</td></tr> <tr><td>HARD BLUE CLAY</td><td>BLACK</td><td>HARD</td><td>23</td><td>105</td></tr> <tr><td>DIRTY SAND</td><td></td><td></td><td>105</td><td>117</td></tr> <tr><td>BLUE CLAY</td><td>BLUE</td><td></td><td>117</td><td>119</td></tr> <tr><td>SAND & GRAVEL</td><td></td><td></td><td>119</td><td>126</td></tr> <tr><td>YELLOW CLAY</td><td>YELLOW</td><td></td><td>126</td><td>154</td></tr> <tr><td>WHITE SAND</td><td>WHITE</td><td></td><td>154</td><td>156</td></tr> <tr><td>YELLOW SAND</td><td>YELLOW</td><td></td><td>156</td><td>166</td></tr> <tr><td>DARK YELLOW SAND CLAY</td><td>YELLOW</td><td></td><td>166</td><td>180</td></tr> </tbody> </table>				Geological Material	Color	Hardness	From	To	BLACK DIRT	BLACK		0	7	YELLOW CLAY	YELLOW		7	17	SAND			17	21	MUSHY CLAY			21	23	HARD BLUE CLAY	BLACK	HARD	23	105	DIRTY SAND			105	117	BLUE CLAY	BLUE		117	119	SAND & GRAVEL			119	126	YELLOW CLAY	YELLOW		126	154	WHITE SAND	WHITE		154	156	YELLOW SAND	YELLOW		156	166	DARK YELLOW SAND CLAY	YELLOW		166	180	Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No
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Well Contractor Certification																																																																							
License Business Name Lic. Or Reg. No. Name of Driller																																																																							
County Well Index Online Report				217085	Printed 6/27/2008 HE-01205-07																																																																		

Minnesota Unique Well No.

223071

County Martin
 Quad Fairmont
 Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/13/1988
 Update Date 07/30/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name STOKELY VAN CAMP NO. 1		Well Depth	Depth Completed	Date Well Completed																																			
Township Range Dir Section Subsections Elevation		1190 ft.	197 ft.	05/00/1937																																			
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		<input type="checkbox"/> Yes <input type="checkbox"/> No																																					
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
		Well Contractor Certification																																					
		BROWN, K. M.																																					
		License Business Name Lic. Or Reg. No. Name of Driller																																					
First Bedrock		Aquifer Quat. Buried Artes. Aquifer																																					
Last Strat Sand-yellow		Depth to Bedrock ft.																																					
County Well Index Online Report		223071		Printed 6/27/2008 HE-01205-07																																			

Minnesota Unique Well No.

642668

County Martin
 Quad Fairmont
 Quad ID 14B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 05/21/2002
 Update Date 04/03/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name S & J EXCAVATING		Well Depth 121 ft.	Depth Completed 121 ft.	Date Well Completed 07/18/2001																								
Township Range Dir Section Subsections Elevation 103 30 W 32 CCB Elevation Method		1158 ft. Calc from DEM (USGS 7.5 min or equiv.)																										
		Drilling Method Non-specified Rotary																										
Well Address RR FAIRMONT MN 56031 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>8</td> </tr> <tr> <td>BLUE</td> <td>MEDIUM</td> <td>8</td> <td>80</td> </tr> <tr> <td>BLUE</td> <td>SOFT</td> <td>80</td> <td>100</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>100</td> <td>114</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>114</td> <td>121</td> </tr> </tbody> </table>		Color	Hardness	From	To	BROWN	SOFT	0	8	BLUE	MEDIUM	8	80	BLUE	SOFT	80	100	BROWN	SOFT	100	114	GRAY	MEDIUM	114	121	Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To																							
		BROWN	SOFT	0	8																							
		BLUE	MEDIUM	8	80																							
		BLUE	SOFT	80	100																							
		BROWN	SOFT	100	114																							
		GRAY	MEDIUM	114	121																							
				Use Domestic																								
				Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																								
				Casing Diameter 5 in. to 116 ft.	Weight lbs./ft.	Hole Diameter 9 in. to 121 ft.																						
		Open Hole from ft. to ft.																										
		Screen YES Make JOHNSON Type stainless steel																										
		Diameter 5	Slot/Gauze 15	Length 5																								
		Set Between 116 ft. and 121 ft.																										
		Static Water Level 46 ft. from Land surface Date Measured 07/18/2001																										
		PUMPING LEVEL (below land surface) 50 ft. after 16 hrs. pumping 60 g.p.m.																										
		Well Head Completion Pitless adapter manufacturer MAAS Model 5X1.25 IN <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																										
NO REMARKS Located Minnesota Department of Health Method GPS SA On (averaged) Unique Number Verification N/A Date N/A System UTM- Nad83, Zone15, Meters X: 381952 Y: 4836858		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 106 ft. 15 bags																										
		Nearest Known Source of Contamination 60 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
		Pump <input type="checkbox"/> Not Installed Date Installed 07/19/2001 Manufacturer's name WEBTROL Model number 102S58B HP 0.5 Volts 230 Length of drop Pipe 60 ft. Capacity 10 g.p.m Type Submersible Material																										
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
First Bedrock		Well Contractor Certification																										
Last Strat Unknown deposit type		Jerry's Well Co. 90421 CHRISTENSEN, License Business Name Lic. Or Reg. No. Name of Driller																										
County Well Index Online Report		642668		Printed 6/27/2008 HE-01205-07																								

SITE SUMMARY

Site Name: Fridley

Fire Department: Fridley Fire Department
6431 University Avenue NE
Fridley, MN 55432

Site Contact: John Berg, Fire Chief
763-572-3610
bergj@ci.fridley.mn.us

Training Location: North Metro Fire Training Center
300 71st Avenue, Fridley

Type of foam used in training: AR-AFFF: 3M (historic)

Foam training frequency: Not very often

Foam use per training event: Less than 5 gallons

Spent foam destination: Retention pond

Annual foam use: AR-AFFF: historic amount not specified
Class A: amount not specified

Nearest surface water: Rice Creek less than 1/4 mile to the south-southeast

Nearest wetland: Less than 1/4 mile southeast

Karst Area: Site appears to be in a transition or covered karst area along the Mississippi River

Nearest water well: Less than 1/4 mile northwest

Nearest Wellhead Protection Area: Training site located within Wellhead Protection Area

SITE RANKING: 28

FRIDLEY CWI Well Map



Fridley What's In My Neighborhood Map

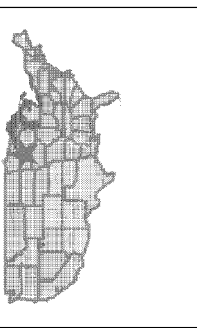
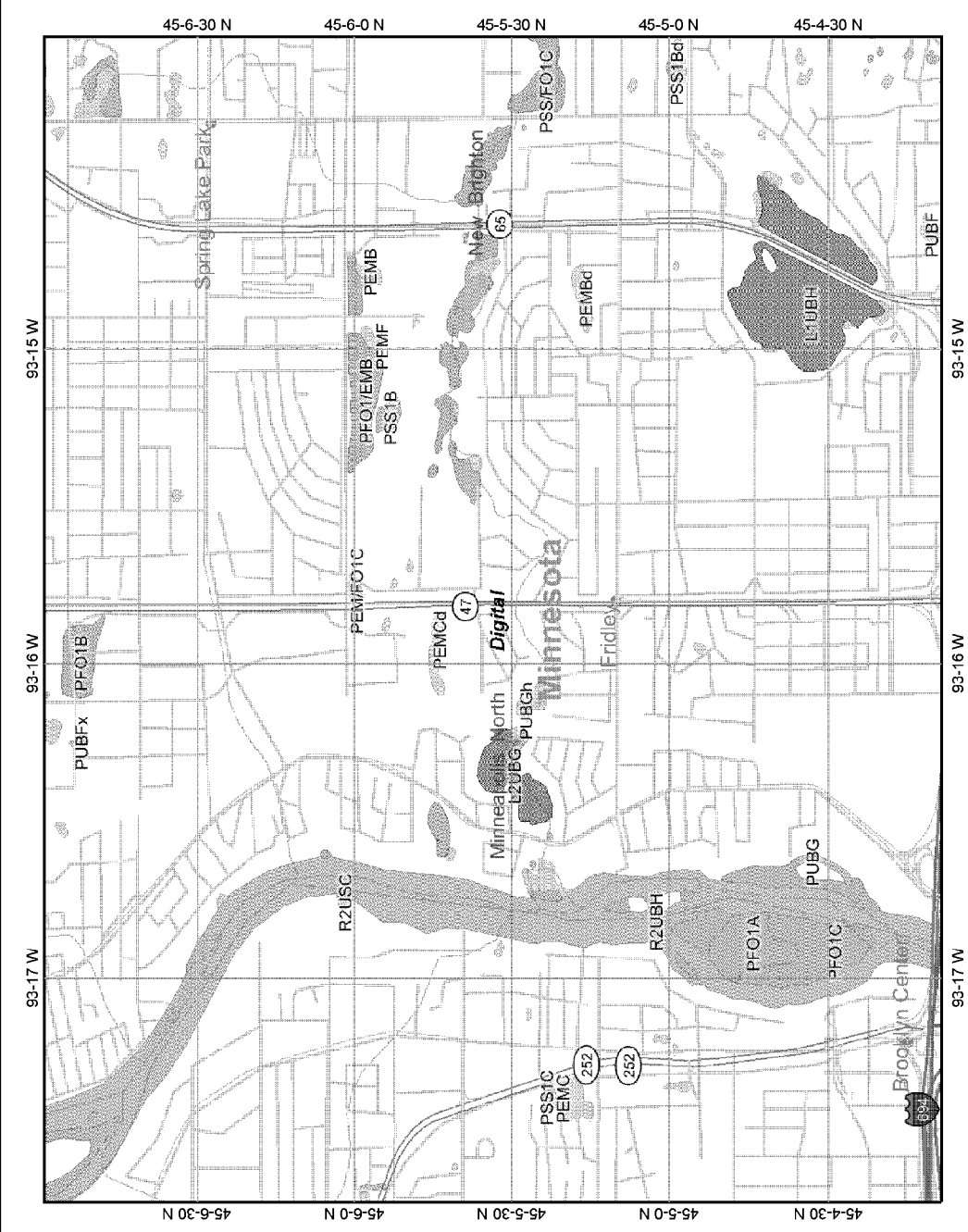


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Fridley



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:36,925

Map center: 45° 5' 34" N, 93° 15' 52" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

223736

County Anoka
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/15/1991
 Update Date 03/27/1996
 Received Date

Well Name JENSEN, BILL Township Range Dir Section Subsections Elevation 849 ft. 30 24 W 14 ABBACB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 119 ft.	Depth Completed 119 ft.	Date Well Completed 08/11/1971																																				
Drilling Method --				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																			
Use Domestic				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																																						
Well Address 589 RICECREEK NE FRIDLEY MN				Casing Diameter 4 in. to ft.	Weight lbs./ft.	Hole Diameter																																				
Geological Material				Open Hole from ft. to ft.																																						
<table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>SAND GRAVEL</td> <td>YELLOW</td> <td>0</td> <td>8</td> </tr> <tr> <td>GRAVEL</td> <td>YELLOW</td> <td>8</td> <td>14</td> </tr> <tr> <td>CLAY</td> <td>BROWN</td> <td>14</td> <td>17</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>17</td> <td>24</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>24</td> <td>44</td> </tr> <tr> <td>ROCKS HARDPAN</td> <td>V.HARD</td> <td>44</td> <td>52</td> </tr> <tr> <td>CLAY HARDPAN</td> <td>BROWN</td> <td>52</td> <td>105</td> </tr> <tr> <td>CLAY & GRAVEL-GRAVEL SCREENED</td> <td>BROWN</td> <td>105</td> <td>119</td> </tr> </tbody> </table>				Color	Hardness	From	To	SAND GRAVEL	YELLOW	0	8	GRAVEL	YELLOW	8	14	CLAY	BROWN	14	17	CLAY	BLUE	17	24	SAND	GRAY	24	44	ROCKS HARDPAN	V.HARD	44	52	CLAY HARDPAN	BROWN	52	105	CLAY & GRAVEL-GRAVEL SCREENED	BROWN	105	119	Screen YES Make Type		
Color	Hardness	From	To																																							
SAND GRAVEL	YELLOW	0	8																																							
GRAVEL	YELLOW	8	14																																							
CLAY	BROWN	14	17																																							
CLAY	BLUE	17	24																																							
SAND	GRAY	24	44																																							
ROCKS HARDPAN	V.HARD	44	52																																							
CLAY HARDPAN	BROWN	52	105																																							
CLAY & GRAVEL-GRAVEL SCREENED	BROWN	105	119																																							
				Diameter	Slot/Gauze	Length	Set Between																																			
				Static Water Level 20 ft. from Land surface Date Measured 08/11/1971																																						
				PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 35 g.p.m.																																						
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																						
NO REMARKS				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
Unique Number Verification Address Date N/A				Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name STA-RITE Model number __ HP 1.5 Volts Length of drop Pipe __ft. Capacity __g.p.m Type Submersible Material																																						
System UTM - Nad83, Zone15, Meters X: 479796 Y: 4993282				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
				Well Contractor Certification <u>Mork Well Co.</u> <u>02133</u> License Business Name Lic. Or Reg. No. Name of Driller																																						
First Bedrock				County Well Index Online Report																																						
Last Strat Pebbly sand/silt/clay-brown				223736																																						
				Printed 6/27/2008 HE-01205-07																																						
Aquifer Quat. Buried Artes. Aquifer																																										
Depth to Bedrock ft.																																										

Minnesota Unique Well No.

543528

County Anoka
 Quad Minneapolis North
 Quad ID 120D

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 09/15/1994
 Update Date 09/14/1995
 Received Date

Well Name MW-2		Well Depth 198 ft.	Depth Completed 198 ft.	Date Well Completed 06/02/1994
Township Range Dir Section Subsections Elevation 30 24 W 14 ACBACD 850 ft. 7.5 minute topographic map (+/- 5 feet)		Drilling Method Vibracore/rotasonic		
Well Address FRIDLEY MN 55432		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Geological Material SAND CLAY SAND SOFT CLAY SAND SANDROCK LIMEROCK LIMEROCK		Use Monitor well		
Color		Casing Type Steel (black or low carbon) <input type="checkbox"/> Joint Welded <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Hardness		Casing Diameter 4 in. to 122 ft.		
From		Weight lbs./ft.		
To		Hole Diameter 6 in. to 122 ft. 4 in. to 198 ft.		
Color		Open Hole from 122 ft. to 198 ft.		
Hardness		Screen NO Make Type		
From		Diameter Slot/Gauze Length Set Between		
To		Static Water Level ft. from Date Measured		
Color		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Hardness		Well Head Completion Pitless adapter manufacturer Model		
From		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
To		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Color		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Hardness		Grout Material Neat Cement from 0 to 122 ft. 27 bags		
From		Nearest Known Source of Contamination _feet _direction _type		
To		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		

REMARKS

M.G.S. NO. 3526. GAMMA LOGGED 9-8-1994.

Located Minnesota Geological Survey
Unique Number Verification Information from owner
System UTM - Nad83, Zone 15, Meters
Method Digitization (Screen) - Map (1:24,000)
Date 07/19/2004
X: 479814 **Y:** 4992849

<p>Pump <input type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP 0 _____ Volts _____</p> <p>Length of drop Pipe _____ ft. Capacity _____ g.p.m. Type _____ Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p>North Star Drilling 49588 BACKOWSKI, M.</p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>543528</p>	
<p>Printed 6/27/2008 HE-01205-07</p>	

Cuttings Yes **Borehole Geophysics** Yes

First Bedrock Prairie Du Chien Group

Last Strat Prairie Du Chien Group

Aquifer Prairie Du Chien Group
Depth to Bedrock 119 ft.

County Well Index Online Report

Minnesota Unique Well No.

576180

County Anoka
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-1		Well Depth 17 ft.	Depth Completed 15 ft.	Date Well Completed 04/03/1996												
Township Range Dir Section Subsections Elevation 30 24 W 11 BCDAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Auger (non-specified)														
Well Address 7300 UNIVERSITY AV FRIDLEY MN Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>SAND</td> <td>WHT/BRN</td> <td>0</td> <td>11</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>11</td> <td>17</td> </tr> </tbody> </table>		Color	Hardness	From	To	SAND	WHT/BRN	0	11	CLAY	GRAY	11	17	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To											
		SAND	WHT/BRN	0	11											
		CLAY	GRAY	11	17											
		Use Abandoned Status Sealed														
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.														
		Casing Diameter 2 in. to 5 ft.		Weight lbs./ft.	Hole Diameter 8 in. to 17 ft.											
		Open Hole from ft. to ft.														
		Screen YES Make JOINSON Type plastic														
		Diameter 2	Slot/Gauze 10	Length 10	Set Between 5 ft. and 15 ft.											
Static Water Level 6 ft. from Land surface Date Measured 04/03/1996																
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																
Well Head Completion Pitless adapter manufacturer 6" PROTOP Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																
REMARKS WELL SEALED 08-20-1997 BY 02653 ORIGINAL USE : MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: CONCRETE from to 3 ft. 3 bags														
Located Minnesota Department of Health Method GPS SA On (averaged)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No														
Unique Number Verification N/A Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material														
System UTM - Nad83, Zone15, Meters X: 479138 Y: 4994227		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
First Bedrock		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
Last Strat Clay-gray		Well Contractor Certification W.J. Canty, Inc. 71677 CANTY, W. License Business Name Lic. Or Reg. No. Name of Driller														
County Well Index Online Report		576180		Printed 6/27/2008 HE-01205-07												

Minnesota Unique Well No.

576181

County Anoka
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-2		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		21 ft.	18 ft.	04/03/1996
30	24 W 11 BCDCDA	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Drilling Method		Auger (non-specified)		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use		Status Sealed		
Casing Type Plastic		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
No Above/Below ft.				
Casing Diameter		Weight	Hole Diameter	
2 in. to 7.5 ft.		lbs./ft.	8 in. to 20.5 ft.	
Open Hole		from ft. to ft.		
Screen YES		Make JOINSON	Type plastic	
Diameter	Slot/Gauze	Length	Set Between	
2	10	10	7.5 ft. and 17.5 ft.	
Geological Material				
	Color	Hardness	From	To
SAND	WHT/GRY		0	14
CLAY	GRAY		14	21
Static Water Level				
8.6 ft. from Land surface Date Measured 04/03/1996				
PUMPING LEVEL (below land surface)				
ft. after hrs. pumping g.p.m.				
Well Head Completion				
Pitless adapter manufacturer 6" PRO TOP Model				
<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS				
WELL SEALED 08-20-1997 BY 02653 ORIGINAL USE : MONITOR WELL				
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Grout Material: CONCRETE from to 4 ft. 3 bags				
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number __ HP _ Volts				
Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes				
<input checked="" type="checkbox"/> No				
Well Contractor Certification				
W.J. Canty, Inc. 71677 CANTY, W.				
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock		Aquifer Quat. Water Table Aquifer		
Last Strat Clay-gray		Depth to Bedrock ft.		
County Well Index Online Report		576181		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

576182

County Anoka
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW-3		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		19 ft.	17 ft.	04/03/1996
30	24 W 11 BCDCAD	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Drilling Method		Auger (non-specified)		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use		Abandoned Status Sealed		
Casing Type		Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
No Above/Below		ft.		
Casing Diameter		Weight	Hole Diameter	
2 in. to 7 ft.		lbs./ft.	8 in. to 17 ft.	
Open Hole		from ft. to ft.		
Screen YES		Make JOINSON	Type plastic	
Diameter	Slot/Gauze	Length	Set Between	
2	10	10	7 ft. and 17 ft.	
Geological Material		Color	Hardness	From To
SAND		BROWN		0 13
CLAY		GRAY		13 19
Static Water Level		8 ft. from Land surface Date Measured 04/03/1996		
PUMPING LEVEL (below land surface)		ft. after hrs. pumping g.p.m.		
Well Head Completion		Pitless adapter manufacturer 6" PRO TOP Model		
<input checked="" type="checkbox"/> Casing Protection Y		<input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
WELL SEALED 08-20-1997 BY 02653		Grout Material: CONCRETE from to 3 ft. 3 bags		
ORIGINAL USE : MONITOR WELL		Nearest Known Source of Contamination		
Located Minnesota Department of Health Method GPS SA On (averaged)		_feet _direction _type		
Unique Number Verification N/A Date N/A		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 479160 Y: 4994212		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP _ Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
First Bedrock		Abandoned Wells Does property have any not in use and not sealed well(s)?		
Aquifer Quat. Water Table Aquifer		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Last Strat Clay-gray		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
Depth to Bedrock ft.		<input checked="" type="checkbox"/> No		
County Well Index Online Report		Well Contractor Certification		
		W.J. Canty, Inc. 71677 CANTY, W.		
		License Business Name Lic. Or Reg. No. Name of Driller		
		576182		Printed 6/27/2008 HE-01205-07

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		576221	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

576959

County Anoka
 Quad New Brighton
 Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Well Name MW-1		Well Depth	Depth Completed	Date Well Completed		
Township Range Dir Section Subsections Elevation		21 ft.	21 ft.	03/21/1996		
30	24 W 12 CCBCCD	Elevation Method topographic map (-/+ 5 feet)				
Elevation Method		Drilling Method Auger (non-specified)				
Well Address 6982 65 HY NE MN Geological Material Color Hardness From To FINE SAND BROWN MEDIUM 0 19 SILTY SAND GRAY MEDIUM 19 21		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		--	From Ft. to Ft.			
		Use Abandoned Status Sealed				
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.				
		Casing Diameter		Weight	Hole Diameter	
		2 in. to 19 ft.		lbs./ft.	8 in. to 21 ft.	
		Open Hole from ft. to ft.				
		Screen YES Make PVC Type slotted pipe				
		Diameter		Slot/Gauze	Length	Set Between
		2		10	10	9 ft. and 19 ft.
Static Water Level						
13 ft. from Land surface Date Measured 03/21/1996						
PUMPING LEVEL (below land surface)						
ft. after hrs. pumping g.p.m.						
Well Head Completion						
Pitless adapter manufacturer Model						
<input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
WELL SEALED 07-02-1996 BY 27058		Grout Material: Bentonite from to 5 ft. 2 bags				
ORIGINAL USE : MONITOR WELL		Nearest Known Source of Contamination				
Located Minnesota Department of Health Method GPS SA On (averaged)		_feet _direction _type				
Unique Number Verification N/A Date N/A		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
System UTM - Nad83, Zone15, Meters X: 480520 Y: 4993554		Pump <input type="checkbox"/> Not Installed Date Installed				
		Manufacturer's name Model number __ HP _ Volts				
		Length of drop Pipe _ft. Capacity _g.p.m Type Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>				
		Yes <input checked="" type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/>				
		No				
		Well Contractor Certification				
First Bedrock		Bergerson-Caswell 27058 BURANDT, P				
Last Strat Sand & silt-gray		Lic. Or Reg. No. Name of Driller				
Depth to Bedrock ft.						
County Well Index Online Report		576959		Printed 6/27/2008 HE-01205-07		

Minnesota Unique Well No.

576961

County Anoka
 Quad New Brighton
 Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name MW-3 Township Range Dir Section Subsections Elevation 888 ft. 30 24 W 12 CCBDA Elevation Method 7.5 minute topographic map (-/+ 5 feet)</p>	<p>Well Depth 18 ft. Depth Completed 18 ft. Date Well Completed 03/21/1996 Drilling Method Auger (non-specified)</p>																														
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>FINE SAND</td> <td>BROWN MEDIUM</td> <td>0</td> <td>10</td> </tr> <tr> <td>SILTY SAND</td> <td>BROWN MEDIUM</td> <td>10</td> <td>15</td> </tr> <tr> <td>SILTY SAND</td> <td>GRAY MEDIUM</td> <td>15</td> <td>18</td> </tr> </tbody> </table>	Color	Hardness	From	To	FINE SAND	BROWN MEDIUM	0	10	SILTY SAND	BROWN MEDIUM	10	15	SILTY SAND	GRAY MEDIUM	15	18	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Abandoned Status Sealed</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>2 in. to 17 ft.</td> <td>lbs/ft.</td> <td>8 in. to 18 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make Type mixed (multiple)</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>10</td> <td>10</td> <td>7 ft. and 17 ft.</td> </tr> </tbody> </table> <p>Static Water Level 12 ft. from Land surface Date Measured 03/21/1996</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	2 in. to 17 ft.	lbs/ft.	8 in. to 18 ft.	Diameter	Slot/Gauze	Length	Set Between	2	10	10	7 ft. and 17 ft.
	Color	Hardness	From	To																											
	FINE SAND	BROWN MEDIUM	0	10																											
	SILTY SAND	BROWN MEDIUM	10	15																											
	SILTY SAND	GRAY MEDIUM	15	18																											
	Casing Diameter	Weight	Hole Diameter																												
	2 in. to 17 ft.	lbs/ft.	8 in. to 18 ft.																												
	Diameter	Slot/Gauze	Length	Set Between																											
	2	10	10	7 ft. and 17 ft.																											
	<p>REMARKS WELL SEALED 07-02-1996 BY 27058 ORIGINAL USE: MONITOR WELL</p> <p>Located Minnesota Department of Health Method GPS SA On (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 480569 Y: 4993695</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 3 ft. 1.5 bags</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																													
<p>First Bedrock Last Strat Sand & silt-gray</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Well Contractor Certification <u>Bergerson-Caswell</u> 27058 <u>BURNADT, P</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																														
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">576961</p> <p style="text-align: right;">Printed 6/27/2008 HE-01205-07</p>																														

Minnesota Unique Well No.

576960

County Anoka
 Quad New Brighton
 Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/22/2003
 Update Date 11/17/2006
 Received Date

Well Name MW-2 Township Range Dir Section Subsections Elevation 884 ft. 30 24 W 12 CCBCDD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 21 ft. Depth Completed 21 ft. Date Well Completed 03/21/1996
		Drilling Method Auger (non-specified)
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Abandoned Status Sealed
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
		Casing Diameter 2 in. to 19 ft. Weight lbs./ft. Hole Diameter 8 in. to 21 ft.
		Open Hole from ft. to ft.
		Screen YES Make PVC Type slotted pipe
		Diameter 2 Slot/Gauze 10 Length 10 Set Between 9 ft. and 19 ft.
Well Address 6982 65 HY NE MN		
Geological Material		
	Color DK. BRN SAND SAND SILTY CLAY & SAND	Hardness MEDIUM MEDIUM MEDIUM
	From 0 6 16 21	To 6 16 21
		Static Water Level 13.5 ft. from Land surface Date Measured 03/21/1996
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL SEALED 07-02-1996 BY 27058 ORIGINAL USE MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 5 ft. 2 bags
Located Minnesota Department of Health Method GPS SA On (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 480561 Y: 4993569		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Pebble free clay/sand/silt- Depth to Bedrock ft.		Well Contractor Certification Bergerson-Caswell 27058 BURANDT, P. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		576960
		Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name: Glenville

Fire Department: Glenville Fire Department
Glenville, MN 56036

Site Contact: Craig Rayman, Fire Chief
507-448-3916
raymanc@geschools.com

Training Location: High school football field, Glenville

Type of foam used in training: AR-AFFF: Ansul

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: less than 5 gallons

Nearest surface water: Rock River less than 1/4 mile to the east

Nearest wetland: 1/4 to 1/2 mile east

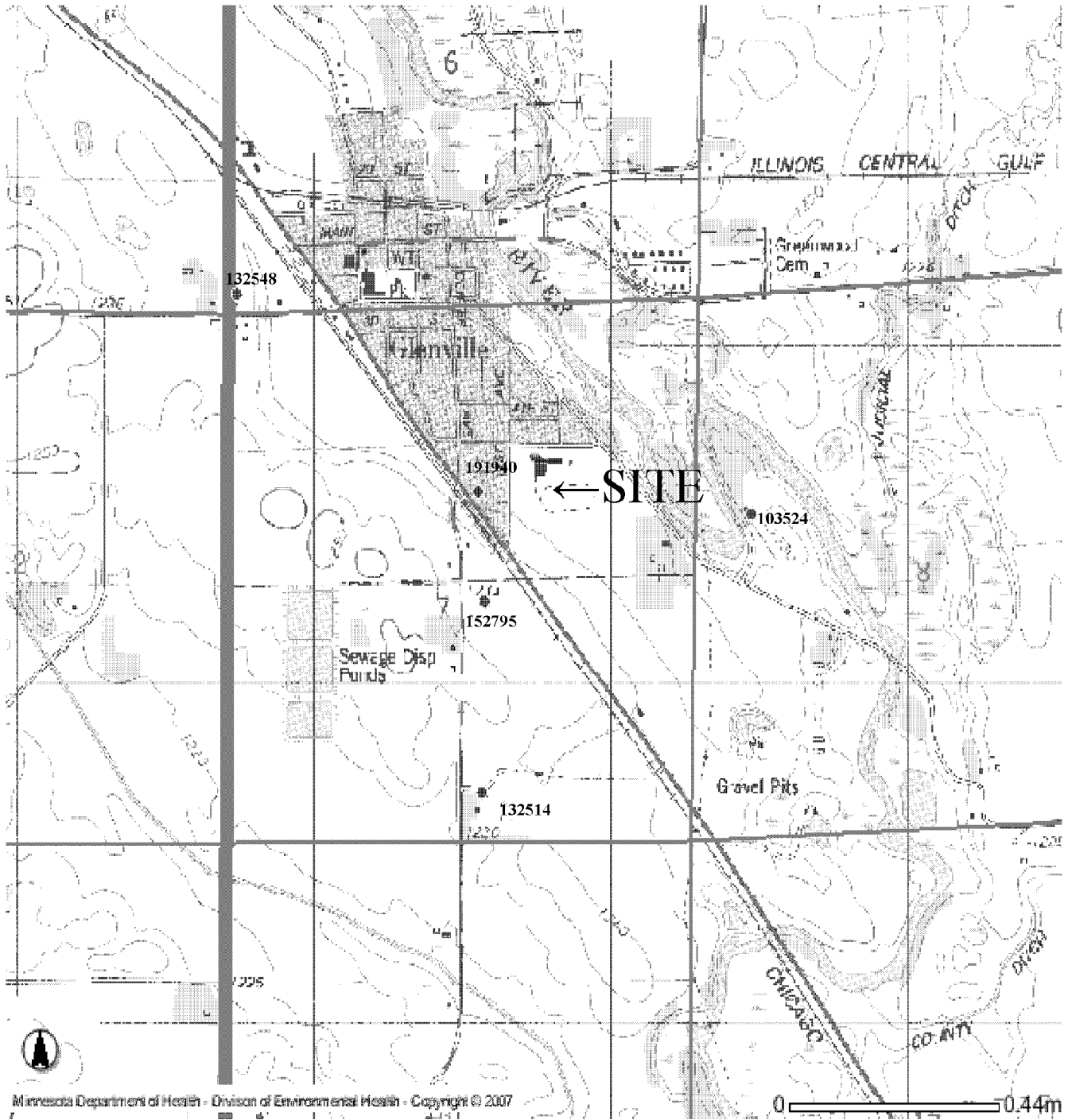
Karst Area: Training site is located in a transition or covered karst area

Nearest water well: Less than 1/4 mile west

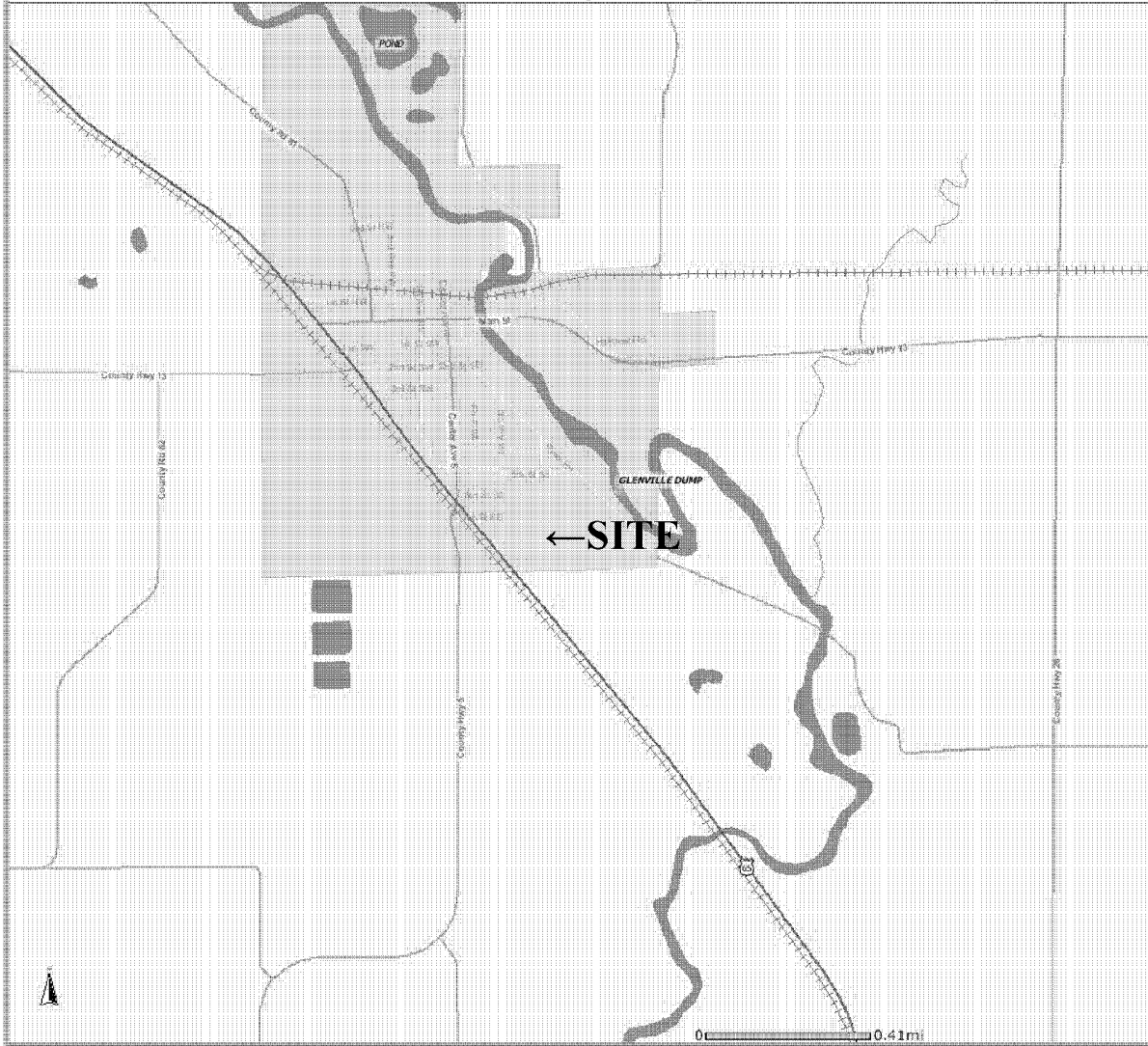
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 13

GLENVILLE CWI Well Map



Glenville What's In My Neighborhood Map

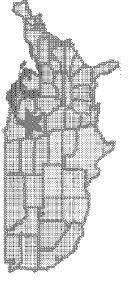
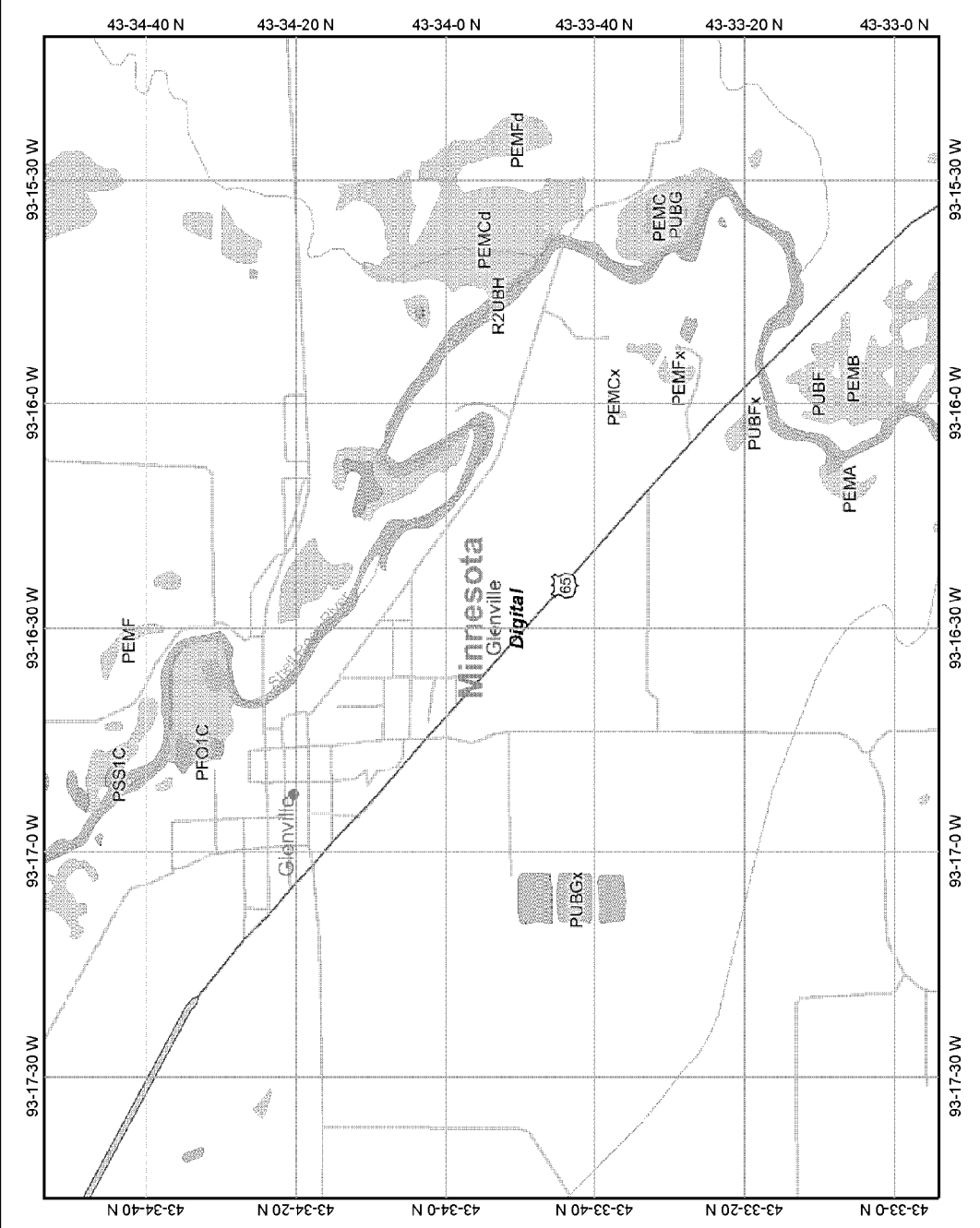


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

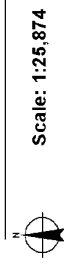
- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Glenville Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Map center: 43° 33' 54" N, 93° 16' 29" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

103524

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

Well Name WAALKENS, JOHN Township Range Dir Section Subsections Elevation 1220 ft. 101 20 W 8 BCCAD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 100 ft.	Depth Completed 100 ft.	Date Well Completed 03/20/1976			
Drilling Method Non-specified Rotary					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 18 ft.					
Casing Diameter 5 in. to 78 ft.					Weight 15 lbs./ft.		Hole Diameter			
Open Hole from 78 ft. to 100 ft.					Screen NO Make Type					
Geological Material TOP SOIL SAND & GRAVEL LIMESTONE					Color BLACK BROWN GRAY		Hardness SOFT SOFT HARD		From To 0 3 3 70 70 100	
Static Water Level ft. from Date Measured					PUMPING LEVEL (below land surface) ft. after 75 hrs. pumping g.p.m.					
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
NO REMARKS					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name FLINT AND WALLING Model number 10KB HP 0.5 Volts 220 Length of drop Pipe 10 ft. Capacity 10 g.p.m Type Submersible Material					
Unique Number Verification Information from neighbor Date N/A					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
System UTM - Nad83, Zone15, Meters X: 478457 Y: 4823711					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					
First Bedrock Cedar Valley Group Aquifer Cedar Valley Group					Well Contractor Certification Morrison Well Co. 24001 MORRISON WELL License Business Name Lic. Or Reg. No. Name of Driller					
Last Strat Cedar Valley Group Depth to Bedrock 70 ft.					County Well Index Online Report					
					103524		Printed 6/27/2008 HE-01205-07			

Minnesota Unique Well No.

132514

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

Well Name NELSON, HARLAND Township Range Dir Section Subsections Elevation 1230 ft. 101 20 W 7 DCCBD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 125 ft.	Depth Completed 125 ft.	Date Well Completed 05/18/1976	
Drilling Method Non-specified Rotary				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic				Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.			
Geological Material				Casing Diameter 5 in. to 95 ft.	Weight 15 lbs./ft.	Hole Diameter	
TOPSOIL CLAY CLAY CLAY CLAY CLAY CLAY SHALE SHALE & LIMESTONE LIMESTONE OPEN HOLE LIMESTONE	BLACK YELLOW BLUE BROWN BLUE BROWN DK. BRN GREEN BROWN	MEDIUM	Hardness	From 0 2 18 35 40 48 64 70 80 94 115 123 125	To 2 18 35 40 48 64 70 80 94 115 123 125	Open Hole from 95 ft. to 125 ft.	
Static Water Level 30 ft. from Land surface Date Measured 05/18/1976				PUMPING LEVEL (below land surface) 52 ft. after 2 hrs. pumping 150 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS NO. 103531 IS A DUPLICATE OF THIS LOG. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Name on mailbox Date N/A System UTM - Nad83, Zone15, Meters X: 477550 Y: 4822890				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Nearest Known Source of Contamination 50 feet North West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name JACUZZI Model number HP 0.5 Volts 220 Length of drop Pipe 36 ft. Capacity 10 g.p.m. Type Submersible Material			
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification Morrison Well Co. 24001 MORRISON, D. License Business Name Lic. Or Reg. No. Name of Driller				Well Contractor Certification Morrison Well Co. 24001 MORRISON, D. License Business Name Lic. Or Reg. No. Name of Driller			
First Bedrock Cedar Valley Group Aquifer Cedar Valley Group Last Strat Cedar Valley Group Depth to Bedrock 70 ft.				County Well Index Online Report			
County Well Index Online Report				132514		Printed 6/27/2008 HE-01205-07	

Minnesota Unique Well No.

132548

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 05/10/2007
 Received Date

Well Name HAGEN, LILLIAN Township Range Dir Section Subsections Elevation 1233 ft. 101 20 W 6 CCCCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 127 ft.	Depth Completed 127 ft.	Date Well Completed 03/11/1977
		Drilling Method --		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 2 ft.		
Well Address RR 2 GLENVILLE MN 56036		Casing Diameter 5 in. to 101 ft.	Weight 15 lbs./ft.	Hole Diameter
Geological Material		Open Hole from 101 ft. to 127 ft.		
TOP SOIL CLAY CLAY CLAY CLAY SHALE SHALE LIMESTONE SHALE LIMESTONE	BLACK YELLOW BLUE YELLOW BLUE GREEN WHITE BROWN WHITE GRAY	Hardness 0 2 18 33 55 80 88 90 112 120 127	From 0 2 18 33 55 80 88 90 112 120 127	To 2 18 33 55 80 88 90 112 120 127
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level 50 ft. from Land surface Date Measured 03/11/1977		
		PUMPING LEVEL (below land surface) 58 ft. after 2 hrs. pumping 75 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 85 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information from neighbor Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe ft. Capacity g.p.m Type Material		
System UTM - Nad83, Zone15, Meters X: 476725 Y: 4824361		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Cedar Valley Group Aquifer Cedar Valley Group		Well Contractor Certification Morrison Well Co. 24001 MORRISON WELL License Business Name I.c. Or Reg. No. Name of Driller		
Last Strat Cedar Valley Group Depth to Bedrock 80 ft.				
County Well Index Online Report		132548		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

152795

County Freeborn
 Quad
 Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

<p>Well Name LENZ, THEO Township Range Dir Section Subsections Elevation 1235 ft. 101 20 W 7 DBBBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 111 ft. Depth Completed 111 ft. Date Well Completed 00/00/1979 Drilling Method Non-specified Rotary</p>																																																																
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BLACK</td><td></td><td>0</td><td>2</td></tr> <tr><td>GRAVEL</td><td></td><td></td><td>2</td><td>18</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>18</td><td>45</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>45</td><td>76</td></tr> <tr><td>LIMESTONE</td><td>BROWN</td><td></td><td>76</td><td>80</td></tr> <tr><td>SHALE</td><td></td><td></td><td>80</td><td>85</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>85</td><td>98</td></tr> <tr><td>SHALE + LIMESTONE</td><td>BROWN</td><td></td><td>98</td><td>108</td></tr> <tr><td>LIMESTONE</td><td>BROWN</td><td></td><td>108</td><td>111</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	2	GRAVEL			2	18	CLAY	YELLOW		18	45	CLAY	BLUE		45	76	LIMESTONE	BROWN		76	80	SHALE			80	85	LIMESTONE			85	98	SHALE + LIMESTONE	BROWN		98	108	LIMESTONE	BROWN		108	111	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.</p> <p>Casing Diameter 5 in. to 91 ft. Weight 15 lbs./ft. Hole Diameter</p> <p>Open Hole from 91 ft. to 111 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level 23 ft. from Land surface Date Measured 1979</p> <p>PUMPING LEVEL (below land surface) 43 ft. after 2 hrs. pumping 100 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Screen NO	Make	Type				Diameter	Slot/Gauze	Length	Set Between				
	Geological Material	Color	Hardness	From	To																																																												
	TOP SOIL	BLACK		0	2																																																												
	GRAVEL			2	18																																																												
	CLAY	YELLOW		18	45																																																												
	CLAY	BLUE		45	76																																																												
	LIMESTONE	BROWN		76	80																																																												
	SHALE			80	85																																																												
	LIMESTONE			85	98																																																												
	SHALE + LIMESTONE	BROWN		98	108																																																												
LIMESTONE	BROWN		108	111																																																													
Screen NO	Make	Type																																																															
Diameter	Slot/Gauze	Length	Set Between																																																														
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Information from owner Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 477559 Y: 4823454</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 65 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																																																
<p>First Bedrock Cedar Valley Group Aquifer Cedar Valley Group Last Strat Cedar Valley Group Depth to Bedrock 76 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Morrison Well Co.</u> <u>24001</u> <u>MORRISON,</u> <u>D.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">152795</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>																																																																

Minnesota Unique Well No.

191940

County Freeborn
 Quad Glenville
 Quad ID 10D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 11/26/2007
 Received Date

<p>Well Name SOIL EXPLORATION Township Range Dir Section Subsections Elevation 1235 ft. 101 20 W 7 ACBCDB Elevation Method 7.5 minute topographic map (-/5 feet)</p>	<p>Well Depth 32 ft. Depth Completed 32 ft. Date Well Completed 04/18/1985 Drilling Method Cable Tool</p>
<p>Geological Material Color Hardness From To</p> <p>TOPSOIL BLACK 0 3 SAND & GRAVEL YELLOW 3 27 SAND & GRAVEL BROWN 27 29 CLAY BLUE 29 32</p>	<p>Drilling Fluid Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Domestic</p>
	<p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.</p>
	<p>Casing Diameter Weight Hole Diameter</p> <p>11 in. to 12 ft. 49 lbs./ft. 20 in. to 19 ft. 78.6 lbs./ft.</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen YES Make JOHNSON Type stainless steel</p>
	<p>Diameter Slot/Gauze Length Set Between</p> <p>14 20 20 30 ft. and 10 ft.</p>
	<p>Static Water Level 11 ft. from Land surface Date Measured 04/18/1985</p>
	<p>PUMPING LEVEL (below land surface) 17.3 ft. after 100 hrs. pumping 10 g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p>REMARKS SPEEDY MART GAS STATION, CO. RD. 5 & HWY. 65</p> <p>Located Mankato State University Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 11/20/2003 System UTM - Nad83, Zone15, X: 477537 Y: 4823778 Meters</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 3 ft.</p>
<p>First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Clay-gray Depth to Bedrock ft.</p>	<p>Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name GRUNDFOS Model number SP4-6 ___ HP 0.5 Volts 230 Length of drop Pipe 28 ft. Capacity 20 g.p.m. Type Submersible Material Galvanized</p>
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller _____ _____ <u>LEDBETTER, B.</u></p>	
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">191940</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>

SITE SUMMARY

Site Name: Golden Valley

Fire Department: Golden Valley Fire Department
7800 Golden Valley Road
Golden Valley, MN 55427

Site Contact: Mark Kuhnly, Fire Chief
763-593-8080
mkuhnly@ci.golden-valley.mn.us

Training Location: 7800 Golden Valley Road, Golden Valley

Type of foam used in training: AR-AFFF: Angus
Class A: Angus

Foam training frequency: Semi-Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Storm sewer, ground

Annual foam use: AR-AFFF: 20 gallons
Class A: 50 gallons

Nearest surface water: Bassett Creek less than 1/4 mile to the north-northwest

Nearest wetland: 1/4 to 1/2 mile southwest

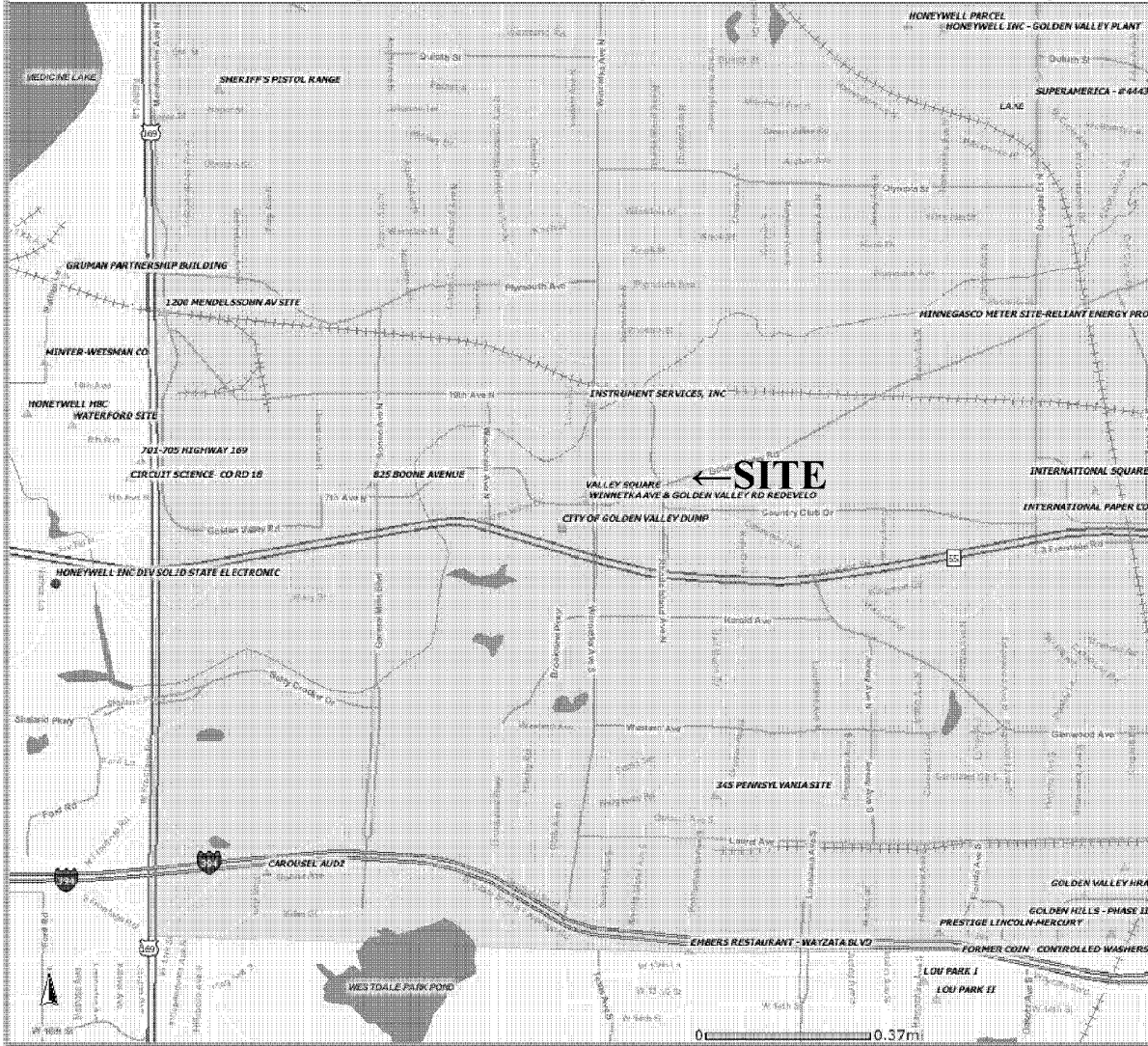
Karst Area: Training site appears to be located in a transition or covered karst area

Nearest water well: Less than 1/8 mile north and south

Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 22

Golden Valley What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

First Bedrock Platteville Last Strat St.Peter	Aquifer Multiple Depth to Bedrock 63 ft.	Well Contractor Certification <u>Renner E.H. & Sons</u> <u>27015</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	203911	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

203913

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**
*Minnesota Statutes Chapter
 103I*

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Well Name CAL VARY LUTHERAN CHURCH Township Range Dir Section Subsections Elevation 905 ft. 118 21 W 32 BCDAAB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 110 ft. Depth Completed 110 ft. Date Well Completed 03/30/1961 Drilling Method --																																	
Well Address 7520 GOLDEN VALLEY RD GOLDEN VALLEY MN <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>GRAVEL</td> <td>BROWN</td> <td></td> <td>0</td> <td>15</td> </tr> <tr> <td>SANDY CLAY</td> <td>BROWN</td> <td></td> <td>15</td> <td>76</td> </tr> <tr> <td>LIMESTONE</td> <td>GRAY</td> <td></td> <td>76</td> <td>89</td> </tr> <tr> <td>SHALE</td> <td>RED</td> <td></td> <td>89</td> <td>95</td> </tr> <tr> <td>SANDSTONE</td> <td>GRAY</td> <td></td> <td>95</td> <td>110</td> </tr> </tbody> </table>				Geological Material	Color	Hardness	From	To	GRAVEL	BROWN		0	15	SANDY CLAY	BROWN		15	76	LIMESTONE	GRAY		76	89	SHALE	RED		89	95	SANDSTONE	GRAY		95	110	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
				Geological Material	Color	Hardness	From	To																													
				GRAVEL	BROWN		0	15																													
				SANDY CLAY	BROWN		15	76																													
				LIMESTONE	GRAY		76	89																													
				SHALE	RED		89	95																													
				SANDSTONE	GRAY		95	110																													
				Use																																	
				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																																	
				Casing Diameter		Weight		Hole Diameter																													
8 in. to 77 ft.		lbs./ft.																																			
Open Hole from 77 ft. to 110 ft.																																					
Screen NO		Make		Type																																	
Diameter		Slot/Gauze		Length Set Between																																	
Static Water Level																																					
30 ft. from Land surface Date Measured 03/30/1961																																					
PUMPING LEVEL (below land surface)																																					
36 ft. after hrs. pumping 140 g.p.m.																																					
Well Head Completion																																					
Pitless adapter manufacturer Model																																					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																					
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_feet _direction _type																																					
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
Pump <input checked="" type="checkbox"/> Not Installed Date Installed																																					
Manufacturer's name <u>RED JACKET</u> Model number <u>300 KL 11P</u>																																					
_ HP <u>3</u> Volts																																					
Length of drop Pipe <u>63</u> ft. Capacity <u>50</u> g.p.m																																					
Type <u>Submersible</u> Material																																					
Abandoned Wells Does property have any not in use and not sealed well																																					
(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>																																					
Yes <input type="checkbox"/> No																																					

First Bedrock Platteville Last Strat St.Peter	Aquifer Multiple Depth to Bedrock 76 ft.	Well Contractor Certification <u>Renner E.H. & Sons</u> <u>27015</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	203913	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

203915

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Well Name PHIL CAVANAUGH				Well Depth 72 ft.		Depth Completed 72 ft.		Date Well Completed 12/10/1957																															
Township Range Dir Section Subsections Elevation 118 21 W 32 CBABA				895 ft. 7.5 minute topographic map (+/- 5 feet)		Elevation Method																																	
Well Address 520 RHODE ISLAND AV N GOLDEN VALLEY MN <table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SANDY CLAY</td> <td>BROWN</td> <td></td> <td>0</td> <td>20</td> </tr> <tr> <td>MUCKY SAND</td> <td>GRAY</td> <td></td> <td>20</td> <td>54</td> </tr> <tr> <td>PACK GRAVEL</td> <td>BLACK</td> <td></td> <td>54</td> <td>63</td> </tr> <tr> <td>BROKEN LIME</td> <td>GRAY</td> <td></td> <td>63</td> <td>72</td> </tr> <tr> <td>BROKEN LIMESTONE</td> <td>GRAY</td> <td></td> <td>72</td> <td>72</td> </tr> </table>				Geological Material	Color	Hardness	From	To	SANDY CLAY	BROWN		0	20	MUCKY SAND	GRAY		20	54	PACK GRAVEL	BLACK		54	63	BROKEN LIME	GRAY		63	72	BROKEN LIMESTONE	GRAY		72	72	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Geological Material	Color	Hardness	From	To																															
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				Use																																			
				Casing Type Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		No Above/Below 0 ft.																															
				Casing Diameter		Weight		Hole Diameter																															
3 in. to 65 ft.		lbs./ft.																																					
Open Hole from 65 ft. to 72 ft.																																							
Screen NO		Make		Type																																			
Diameter		Slot/Gauze		Length		Set Between																																	
Static Water Level 20 ft. from Land surface Date Measured 12/10/1957																																							
PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 12 g.p.m.																																							
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone 15, Meters X: 470339 Y: 4981367				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
				Nearest Known Source of Contamination _feet _direction _type																																			
				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
				Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name AERMOTOR Model number __ HP 0.75 Volts Length of drop Pipe 27 ft. Capacity __g.p.m Type Jet Material																																			
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																			

First Bedrock Platteville Last Strat Platteville	Aquifer Platteville Depth to Bedrock 63 ft.	Well Contractor Certification <u>Renner E.H. & Sons</u> <u>27015</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	203915	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

203917

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 01/17/1992
 Received Date

<p>Well Name RED OWL STORE Township Range Dir Section Subsections Elevation 895 ft. 118 21 W 32 CBB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address 7820 OLSEN HY GOLDEN VALLEY MN</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>FILL MATERIAL</td> <td>DARK</td> <td></td> <td>0</td> <td>12</td> </tr> <tr> <td>SAND</td> <td>TAN</td> <td></td> <td>12</td> <td>40</td> </tr> <tr> <td>PACK GRAVEL</td> <td>DARK</td> <td></td> <td>40</td> <td>76</td> </tr> <tr> <td>COARSE SAND</td> <td>BROWN</td> <td></td> <td>76</td> <td>95</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	FILL MATERIAL	DARK		0	12	SAND	TAN		12	40	PACK GRAVEL	DARK		40	76	COARSE SAND	BROWN		76	95	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 95 ft.</td> <td style="width:33%;">Depth Completed 95 ft.</td> <td style="width:33%;">Date Well Completed 07/31/1959</td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/></td> </tr> <tr> <td colspan="3">Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td>Casing Diameter 6 in. to 87 ft.</td> <td>Weight lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type other</td> </tr> <tr> <td>Diameter 6</td> <td>Slot/Gauze 25</td> <td>Length 8</td> </tr> <tr> <td colspan="3">Set Between 0 ft. and ft.</td> </tr> <tr> <td colspan="3">Static Water Level 25 ft. from Land surface Date Measured 07/31/1959</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 28 ft. after hrs. pumping 58 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name MYERS Model number SA 300 A4 HP 3 Volts Length of drop Pipe 60 ft. Capacity 50 g.p.m Type Submersible Material</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Well Depth 95 ft.	Depth Completed 95 ft.	Date Well Completed 07/31/1959	Drilling Method --			Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use			Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/>			Yes <input type="checkbox"/> No Above/Below 0 ft.			Casing Diameter 6 in. to 87 ft.	Weight lbs./ft.	Hole Diameter	Open Hole from ft. to ft.			Screen YES	Make JOHNSON	Type other	Diameter 6	Slot/Gauze 25	Length 8	Set Between 0 ft. and ft.			Static Water Level 25 ft. from Land surface Date Measured 07/31/1959			PUMPING LEVEL (below land surface) 28 ft. after hrs. pumping 58 g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name MYERS Model number SA 300 A4 HP 3 Volts Length of drop Pipe 60 ft. 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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located United States Method Digitized - scale 1:24,000 or larger Geological Survey (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A A</p> <p>System UTM - Nad83, Zone15, Meters X: 470076 Y: 4981279</p> <p>First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Sand Depth to Bedrock ft.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">County Well Index Online Report</td> <td style="width:25%; text-align: center;">203917</td> <td style="width:25%; text-align: right;">Printed 6/27/2008 HE-01205-07</td> </tr> </table>	County Well Index Online Report	203917	Printed 6/27/2008 HE-01205-07																																																																																		
County Well Index Online Report	203917	Printed 6/27/2008 HE-01205-07																																																																																				

Minnesota Unique Well No.

203918

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		87 ft.	87 ft.	10/30/1961
118 21 W 32 CBCDCB Elevation Method		7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		3 in. to ft.	lbs./ft.	
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type		
		Diameter	Slot/Gauze	Length Set Between
		Static Water Level		
		30 ft. from Land surface Date Measured 10/30/1961		
		PUMPING LEVEL (below land surface)		
		0 ft. after hrs. pumping 20 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>		
		Yes <input type="checkbox"/> No		
		Well Contractor Certification		
		<u>Associated Well Co.</u> 27259		
		License Business Name Lic. Or Reg. No. Name of Driller		
Well Address				
7732 HAROLD AV GOLDEN VALLEY MN				
Geological Material				
	Color	Hardness	From	To
SAND	BLACK		0	6
GRAVEL			6	20
CLAY			20	35
SAND			35	60
DIRTY SAND & GRAVEL			60	75
WATER SAND			75	87
LIMEROCK			87	87
<i>NO REMARKS</i>				
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				
Unique Number Date N/A				
Verification N/A				
System UTM - Nad83, Zone 15, Meters X: 470120 Y: 4981035				
First Bedrock Platteville		Aquifer		
Last Strat Platteville		Depth to Bedrock 87 ft.		

County Well Index Online Report	203918	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

203924

County Hennepin
 Quad Minneapolis South
 Quad ID 104A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name CARL ROAN</p> <p>Township Range Dir Section Subsections Elevation 890 ft.</p> <p>118 21 W 32 DBCDAD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 260 ft. Depth Completed 260 ft. Date Well Completed 10/27/1958</p> <p>Drilling Method --</p>																																																																									
<p>Well Address 6935 GLENWOOD AV GOLDEN VALLEY MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>SAND & CLAY</td><td>BROWN</td><td></td><td>0</td><td>30</td></tr> <tr><td>SANDY CLAY</td><td>BLUE</td><td></td><td>30</td><td>50</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>50</td><td>65</td></tr> <tr><td>CLAY</td><td>BROWN</td><td></td><td>65</td><td>75</td></tr> <tr><td>GRAVEL</td><td>DARK</td><td></td><td>75</td><td>84</td></tr> <tr><td>BROKEN LIMESTONE & GRAVEL</td><td>GRAY</td><td></td><td>84</td><td>105</td></tr> <tr><td>SANDSTONE</td><td>GRAY</td><td></td><td>105</td><td>125</td></tr> <tr><td>SANDSTONE</td><td>WHITE</td><td></td><td>125</td><td>195</td></tr> <tr><td>SANDSTONE</td><td>WHITE</td><td></td><td>195</td><td>210</td></tr> <tr><td>SHALE</td><td>RED</td><td></td><td>210</td><td>234</td></tr> <tr><td>SANDSTONE</td><td>GRAY</td><td>HARD</td><td>234</td><td>253</td></tr> <tr><td>SHAKOPEE</td><td>PINK</td><td></td><td>253</td><td>260</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SAND & CLAY	BROWN		0	30	SANDY CLAY	BLUE		30	50	CLAY	BLUE		50	65	CLAY	BROWN		65	75	GRAVEL	DARK		75	84	BROKEN LIMESTONE & GRAVEL	GRAY		84	105	SANDSTONE	GRAY		105	125	SANDSTONE	WHITE		125	195	SANDSTONE	WHITE		195	210	SHALE	RED		210	234	SANDSTONE	GRAY	HARD	234	253	SHAKOPEE	PINK		253	260	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.</p> <p>Casing Diameter 4 in. to 195 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from 195 ft. to 260 ft.</p> <p>Screen NO Make Type</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Static Water Level 28 ft. from Land surface Date Measured 10/27/1958</p> <p>PUMPING LEVEL (below land surface) 31 ft. after hrs. pumping 20 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</p> <p><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between				
	Geological Material	Color	Hardness	From	To																																																																					
	SAND & CLAY	BROWN		0	30																																																																					
	SANDY CLAY	BLUE		30	50																																																																					
	CLAY	BLUE		50	65																																																																					
	CLAY	BROWN		65	75																																																																					
	GRAVEL	DARK		75	84																																																																					
	BROKEN LIMESTONE & GRAVEL	GRAY		84	105																																																																					
	SANDSTONE	GRAY		105	125																																																																					
	SANDSTONE	WHITE		125	195																																																																					
SANDSTONE	WHITE		195	210																																																																						
SHALE	RED		210	234																																																																						
SANDSTONE	GRAY	HARD	234	253																																																																						
SHAKOPEE	PINK		253	260																																																																						
Diameter	Slot/Gauze	Length	Set Between																																																																							
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 470961 Y: 4981053</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name MYERS Model number SA 50 A4 HP 0.5 Volts Length of drop Pipe 36 ft. Capacity g.p.m Type Submersible Material</p>																																																																									
<p>First Bedrock Platteville Aquifer Multiple</p> <p>Last Strat Prairie Du Chien Group Depth to Bedrock 84 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																									
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">203924</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>																																																																									

Minnesota Unique Well No.

203978

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Well Name NORTHERN STATES POWER SU		Well Depth 92 ft.	Depth Completed 92 ft.	Date Well Completed 06/15/1957																																
Township Range Dir Section Subsections Elevation 118 21 W 31 AACDCB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --																																		
Well Address 901 MINNETONKA AV N GOLDEN VALLEY MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BROWN</td><td></td><td>0</td><td>20</td></tr> <tr><td>BLUE</td><td></td><td>20</td><td>48</td></tr> <tr><td>BROWN</td><td></td><td>48</td><td>49</td></tr> <tr><td>RED</td><td></td><td>49</td><td>65</td></tr> <tr><td>GRAY</td><td></td><td>65</td><td>78</td></tr> <tr><td>GREEN</td><td></td><td>78</td><td>80</td></tr> <tr><td>GRAY</td><td></td><td>80</td><td>92</td></tr> </tbody> </table>		Color	Hardness	From	To	BROWN		0	20	BLUE		20	48	BROWN		48	49	RED		49	65	GRAY		65	78	GREEN		78	80	GRAY		80	92	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To																															
		BROWN		0	20																															
		BLUE		20	48																															
		BROWN		48	49																															
		RED		49	65																															
		GRAY		65	78																															
		GREEN		78	80																															
		GRAY		80	92																															
		Use																																		
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																																				
Casing Diameter 6 in. to 64 ft.	Weight lbs./ft.	Hole Diameter																																		
Open Hole from ft. to ft.																																				
Screen Make Type																																				
Diameter	Slot/Gauze	Length	Set Between																																	
Static Water Level 22 ft. from Land surface Date Measured 06/15/1957																																				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																				
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone 15, Meters X: 469748 Y: 4981851		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																		
		Nearest Known Source of Contamination _feet _direction _type																																		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																		
First Bedrock Platteville Last Strat St.Peter Aquifer Multiple Depth to Bedrock 65 ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																		
		Well Contractor Certification <u>Renner E.H. & Sons</u> 27015 License Business Name Lic. Or Reg. No. Name of Driller																																		

County Well Index Online Report	203978	Printed 6/27/2008 HE-01205-07
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First Bedrock St.Peter Last Strat St.Peter	Aquifer Depth to Bedrock 70 ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		203979	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

203980

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		248 ft.	248 ft.	11/22/1960
118	21 W 31 ADDBBB Elevation Method	7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		4 in. to 216 ft.	lbs./ft.	
		Open Hole from 216 ft. to 248 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
				Set Between
		Static Water Level		
		56 ft. from Land surface Date Measured 11/22/1960		
		PUMPING LEVEL (below land surface)		
		0 ft. after hrs. pumping 20 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name <u>AERMOTOR</u> Model number __ HP <u>0.75</u> Volts		
		Length of drop Pipe _ft. Capacity _g.p.m. Type <u>Submersible</u> Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
		<input type="checkbox"/> No		
		Well Contractor Certification		
		<u>Stodola Don Well Co.</u> 27172		
		License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Platteville		Aquifer Multiple		
Last Strat Prairie Du Chien Group		Depth to Bedrock 62 ft.		
County Well Index Online Report		203980		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

213208

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 08/24/1991
 Update Date 02/01/2006
 Received Date

Well Name MRS. JOHN MUELLANEY				Well Depth	Depth Completed	Date Well Completed																					
Township Range Dir Section Subsections Elevation				79 ft.	79 ft.	07/22/1955																					
118	21	W	32	Elevation Method																							
BBCCBC				7.5 minute topographic map (+/- 5 feet)																							
Well Address 1016 WINNETKA AV N GOLDEN VALLEY MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td></td> <td>0</td> <td>30</td> </tr> <tr> <td>HARDPAN</td> <td></td> <td>30</td> <td>60</td> </tr> <tr> <td>GRAVEL</td> <td></td> <td>60</td> <td>72</td> </tr> <tr> <td>LIME ROCK</td> <td></td> <td>72</td> <td>79</td> </tr> </tbody> </table>				Color	Hardness	From	To	CLAY		0	30	HARDPAN		30	60	GRAVEL		60	72	LIME ROCK		72	79	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				Color	Hardness	From	To																				
				CLAY		0	30																				
				HARDPAN		30	60																				
				GRAVEL		60	72																				
				LIME ROCK		72	79																				
				--				From Ft. to Ft.																			
				Use Domestic																							
				Casing Type				Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																			
				No Above/Below 0 ft.																							
Casing Diameter		Weight		Hole Diameter																							
Open Hole from ft. to ft.																											
Screen		Make		Type																							
Diameter	Slot/Gauze	Length	Set Between																								
Static Water Level																											
36 ft. from Land surface Date Measured 07/22/1955																											
PUMPING LEVEL (below land surface)																											
0 ft. after hrs. pumping 15 g.p.m.																											
Well Head Completion																											
Pitless adapter manufacturer Model																											
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																											
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																											
REMARKS				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																							
3 IN. CASING 127104B5507221182132BBCCB NO CASING RECORD-AQUIFIER UNKOWN																											
Located Minnesota Geological Survey				Method Digitization (Screen) - Map (1:24,000)																							
Unique Number				Date 02/01/2006																							
Verification N/A																											
System UTM - Nad83, Zone15, Meters				X: 470016 Y: 4981903																							
Nearest Known Source of Contamination																											
_feet _direction _type																											
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
Pump <input checked="" type="checkbox"/> Not Installed Date Installed																											
Manufacturer's name Model number __ HP 0 Volts																											
Length of drop Pipe _ft. Capacity 8 g.p.m Type Material																											
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>																											
Yes <input type="checkbox"/> No																											
Well Contractor Certification																											
License Business Name Lic. Or Reg. No. Name of Driller																											
First Bedrock Platteville				Aquifer																							
Last Strat Platteville				Depth to Bedrock 72 ft.																							

County Well Index Online Report	213208	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

223776

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name HOPE CHEST BUILDING		Well Depth 88 ft.	Depth Completed 88 ft.	Date Well Completed 12/27/1956																									
Township Range Dir Section Subsections Elevation 118 21 W 31 ADDDDD Elevation Method topographic map (+/- 5 feet)		Drilling Method --																											
Well Address 605 WINNETKA AV GOLDEN VALLEY MN <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>CLAY</td> <td>BROWN</td> <td></td> <td>0</td> <td>10</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>10</td> <td>45</td> </tr> <tr> <td>DRY STONES</td> <td>BLUE</td> <td></td> <td>45</td> <td>56</td> </tr> <tr> <td>WATER SAND</td> <td>GRAY</td> <td></td> <td>56</td> <td>88</td> </tr> </table>		Geological Material	Color	Hardness	From	To	CLAY	BROWN		0	10	CLAY	BLUE		10	45	DRY STONES	BLUE		45	56	WATER SAND	GRAY		56	88	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																							
		CLAY	BROWN		0	10																							
		CLAY	BLUE		10	45																							
		DRY STONES	BLUE		45	56																							
		WATER SAND	GRAY		56	88																							
		Use Commercial		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																									
		Casing Diameter 4 in. to ft.		Weight lbs./ft.	Hole Diameter																								
		Open Hole from ft. to ft.		Screen YES Make JOHNSON Type other																									
				Diameter 4	Slot/Gauze 18	Length 5																							
		Set Between 0 ft. and ft.																											
Static Water Level 36 ft. from Land surface Date Measured 12/27/1956		PUMPING LEVEL (below land surface) 39 ft. after hrs. pumping 23 g.p.m.																											
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																													
<p style="text-align: center;"><i>NO REMARKS</i></p> Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Address verification System UTM - Nad83, Zone15, Meters X: 469983 Y: 4981434		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe ft. Capacity g.p.m Type Material																											
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																											
First Bedrock		Well Contractor Certification Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller																											
Last Strat Sand-gray		Depth to Bedrock ft.																											
County Well Index Online Report		223776		Printed 6/27/2008 HE-01205-07																									

Minnesota Unique Well No.

224074

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**
*Minnesota Statutes Chapter
 103I*

Entry Date 08/24/1991
 Update Date 05/06/2005
 Received Date

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		91 ft.	91 ft.	04/28/1959
118 21 W 32 CBDDBDA Elevation Method		7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Abandoned Status Sealed		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		3 in. to 63 ft.	lbs./ft.	
		Open Hole from 63 ft. to 91 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length Set Between
		Static Water Level		
		20 ft. from Land surface Date Measured 04/28/1959		
		PUMPING LEVEL (below land surface)		
		23 ft. after hrs. pumping 15 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
WELL SEALED 11-21-1990 BY 27172 ORIGINAL USE DO - DOMESTIC				
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Nearest Known Source of Contamination		
Verification Other, note in remarks		_feet _direction _type		
Date N/A		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone 15, Meters		Pump <input type="checkbox"/> Not Installed Date Installed		
X: 470279 Y: 4981135		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Platteville		Renner E.H. Well 71015		
Aquifer Multiple		License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat St.Peter		Depth to Bedrock 63 ft.		

County Well Index Online Report	224074	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

241384

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/18/1995
 Update Date 10/11/1995
 Received Date

Well Name VALLEY PLAZA Township Range Dir Section Subsections Elevation 890 ft. 118 21 W 32 CBBDBD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 257 ft.	Depth Completed 257 ft.	Date Well Completed
Drilling Method --		Drilling Fluid --		
Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Commercial		
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter 6 in. to 213 ft. Weight lbs./ft. Hole Diameter		
Well Address 7700 OLSON MEMORIAL HY GOLDEN VALLEY MN		Open Hole from 213 ft. to 257 ft.		
Geological Material GLACIAL DRIFT ST. PETER SANDSTONE PRAIRIE DU CHIEN GROUP		Color 0 93 242	Hardness 93 242	From To 0 93 93 242 242 257
Static Water Level 62 ft. from Land surface Date Measured 04/17/1995		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
REMARKS GAMMA LOGGED 4-17-1995.		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
Unique Number Verification Information from owner Date 08/30/2004		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 470164 Y: 4981263		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Borehole Geophysics Yes		Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock St.Peter Aquifer Multiple		County Well Index Online Report		
Last Strat Prairie Du Chien Group Depth to Bedrock 93 ft.		241384		Printed 6/27/2008 HE-01205-07

County Well Index Online Report	243402	Printed 6/27/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

27W0020065

County Hennepin
Quad Hopkins
Quad ID 104B

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		ft.	ft.		
118	21 W 31 DAAABB	908 ft.			
Elevation Method		Drilling Method			
Calc from DEM (USGS 7.5 min or equiv.)					
Geological Material Color Hardness From To		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Use		From Ft. to Ft.	
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Diameter		Slot/Gauze	Length Set Between
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method GPS Differentially Corrected</p> <p>Unique Number Date N/A</p> <p>Verification N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 469922 Y: 4981391</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material			
First Bedrock Aquifer		Abandoned Wells Does property have any not in use and not sealed well(s)?			
		<input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Last Strat Depth to Bedrock ft.		Well Contractor Certification			
		License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	27W0020065	Printed 6/27/2008 HE-01205-07
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SITE SUMMARY

Site Name: Hamburg

Fire Department: Hamburg Fire Department
181 Broadway Avenue
Hamburg, MN 55339

Site Contact: Brad Droege, Fire Chief
952-467-3232
bdroege500@aol.com

Training Location: 181 Broadway Ave., Hamburg

Type of foam used in training: AR-FFFP: Angus

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-FFFP: 5 gallons

Nearest surface water: Bassett Creek less than 1/4 mile to the north-northwest

Nearest wetland: 1/4 to 1/2 mile southwest

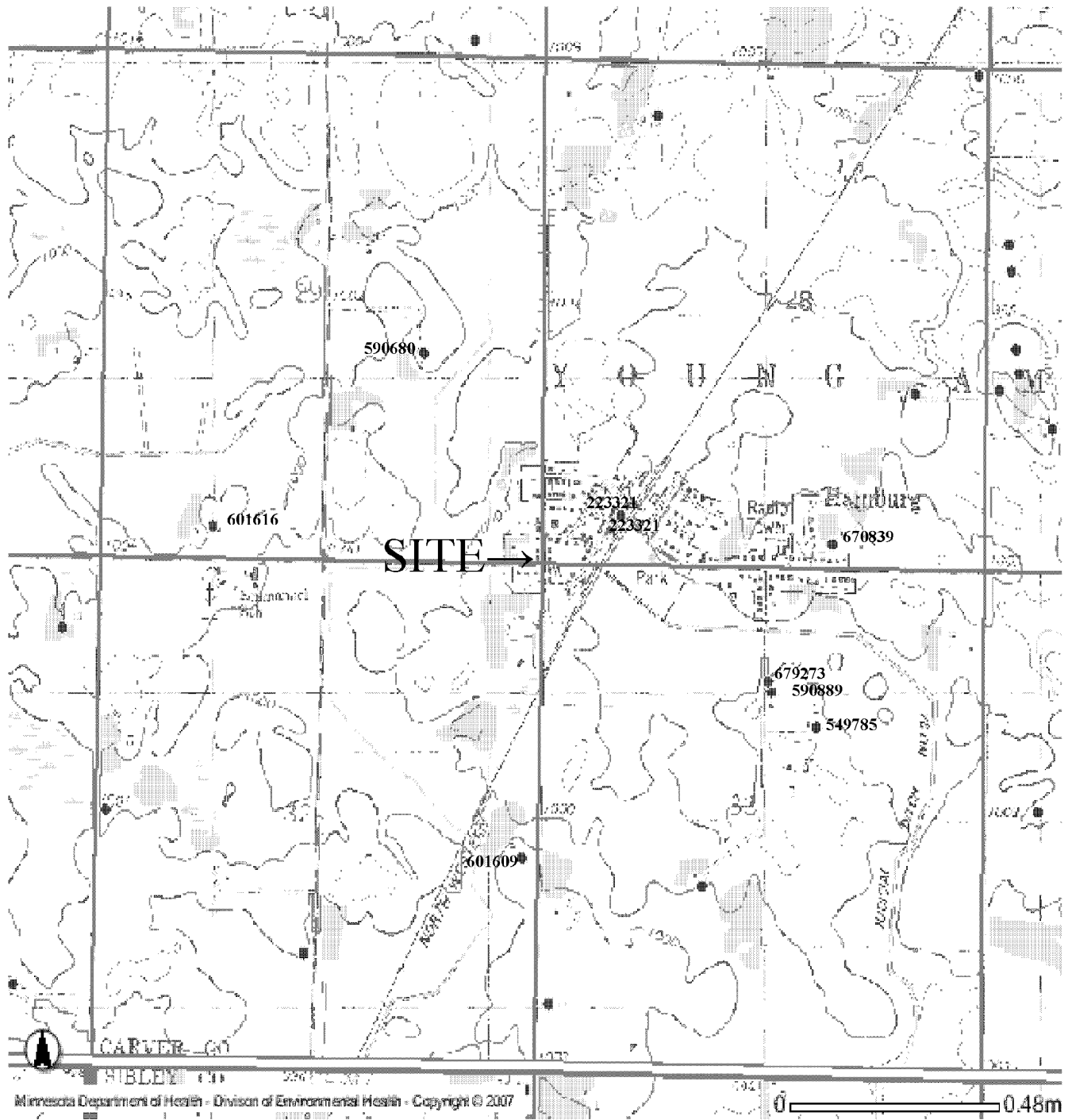
Karst Area: Training site is located in or near a covered karst area

Nearest water well: Less than 1/8 mile north and south

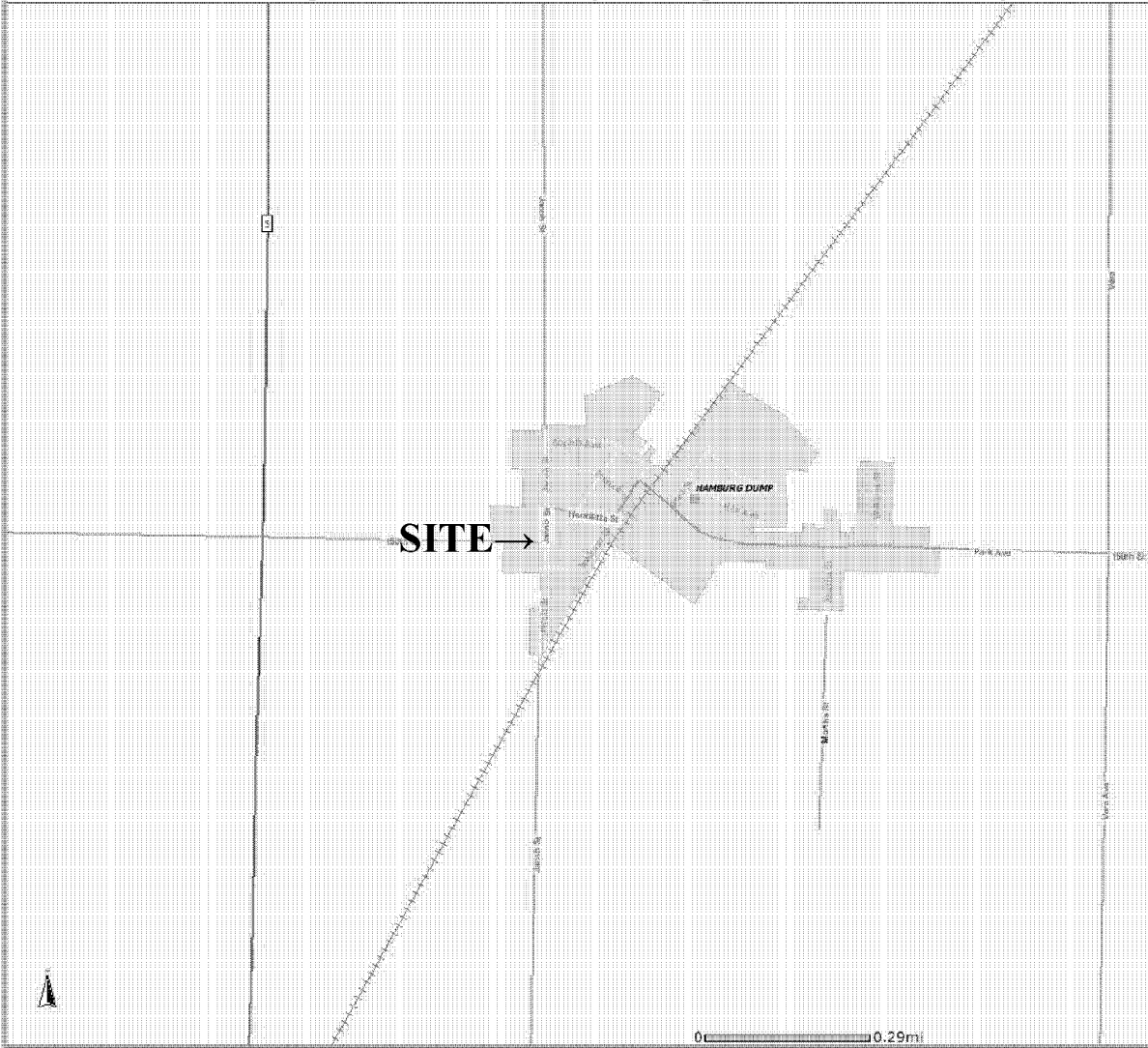
Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 13

HAMBURG CWI Well Map



Hamburg What's In My Neighborhood Map



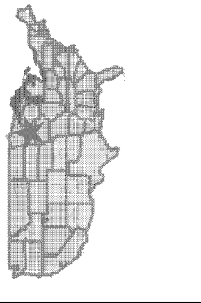
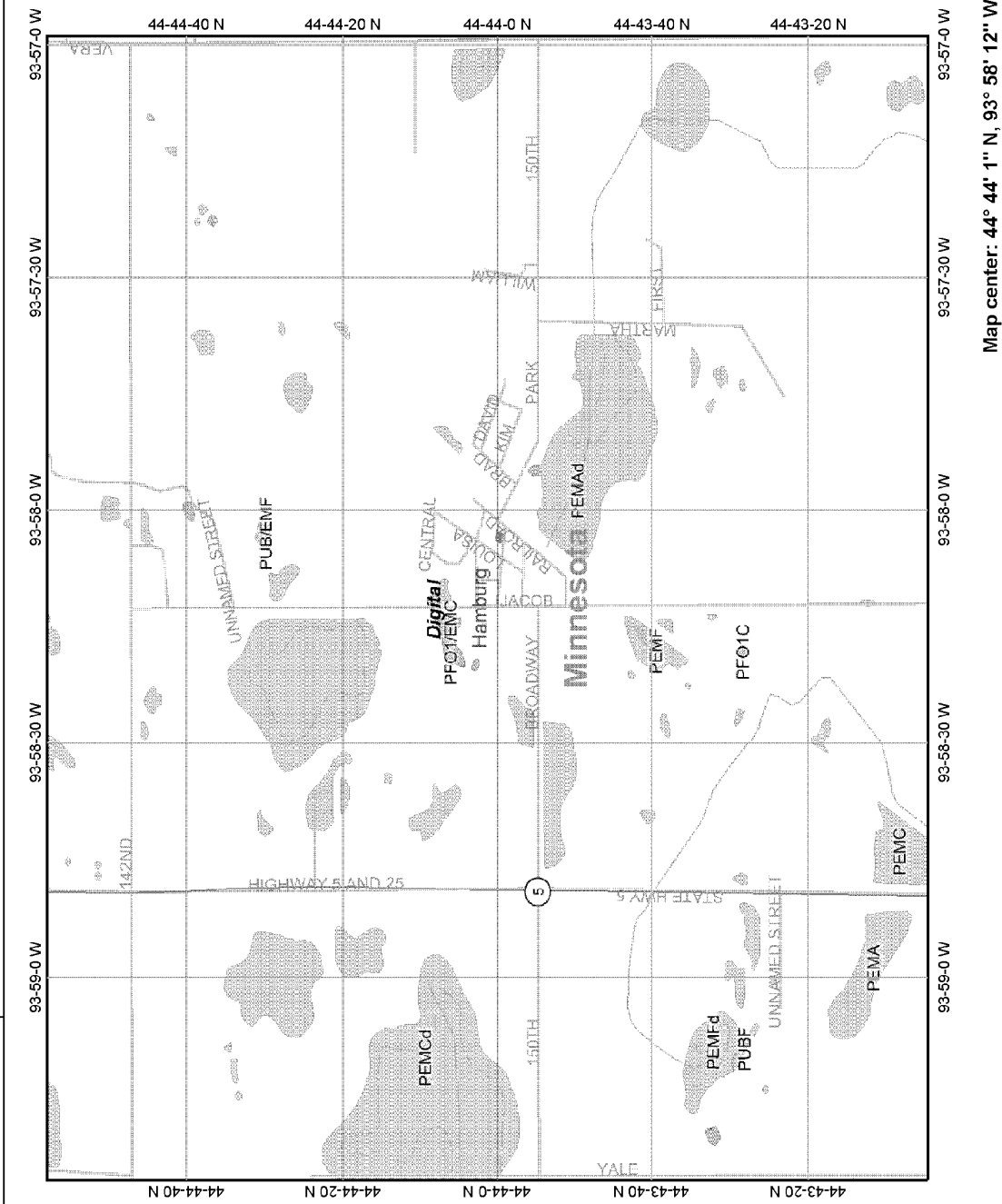
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfill
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

Hamburg Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,546

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

223321

County Carver
 Quad
 Quad ID 91

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
 Update Date 10/06/1993
 Received Date

<p>Well Name MPLS. & ST. LOUIS RR Township Range Dir Section Subsections Elevation 1005 ft. 115 26 W 28 CCDBAB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 244 ft. Depth Completed 244 ft. Date Well Completed 00/00/1944</p> <p>Drilling Method Cable Tool</p>	
<p>Well Address HAMBURG MN 55339</p> <p>Geological Material Color Hardness From To YELLOW CLAY 0 7 BLUE CLAY 7 75 HARDPAN 75 119 SOFT YELLOW CLAY 119 125 HARDPAN 125 203 SANDSTONE WATER BEARING 203 209 WHITE SANDSTONE 209 244</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Commercial</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen Make Type</p> <p>Diameter Slot/Gauze Length Set Between</p> <p>Static Water Level 90 ft. from Land surface Date Measured 1944</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	
	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
	<p>Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material</p>	
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
	<p>Well Contractor Certification <u>Minnesota Dept. of Natural Resources</u> <u>MNDNR</u> License Business Name Lic. Or Reg. No. Name of Driller</p>	
	<p>County Well Index Online Report</p>	<p>223321 Printed 6/27/2008 HE-01205-07</p>

Minnesota Unique Well No.

549785

County Carver
 Quad Hamburg
 Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/07/1996
 Update Date 06/15/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name SCHNEIDER, DAVID		Well Depth	Depth Completed	Date Well Completed																				
Township Range Dir Section Subsections Elevation		215 ft.	215 ft.	08/15/1994																				
115	26 W 33 ACBDAA	Elevation Method CALC FROM 2-FOOT COUNTY DEM																						
Drilling Method Non-specified Rotary																								
Well Address 15275 MARTHA ST MN Geological Material <table style="width:100%; border:none;"> <tr> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>31</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>31</td> <td>90</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>90</td> <td>194</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>194</td> <td>215</td> </tr> </table>		Color	Hardness	From	To	BROWN	SOFT	0	31	GRAY	MEDIUM	31	90	GRAY	MEDIUM	90	194	GRAY	MEDIUM	194	215	Drilling Fluid Qwik gel	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Color	Hardness	From	To																			
		BROWN	SOFT	0	31																			
		GRAY	MEDIUM	31	90																			
		GRAY	MEDIUM	90	194																			
		GRAY	MEDIUM	194	215																			
		Use Domestic		From Ft. to Ft.																				
		Casing Type Plastic Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																						
		Casing Diameter		Weight	Hole Diameter																			
		4 in. to 205 ft.		lbs./ft.	8 in. to 215 ft.																			
Open Hole from ft. to ft.																								
Screen YES Make PVC Type slotted pipe																								
Diameter		Slot/Gauze	Length																					
4		15	10																					
Set Between		205 ft. and 215 ft.																						
Static Water Level		96 ft. from Land surface Date Measured 08/15/1994																						
PUMPING LEVEL (below land surface)		215 ft. after 4 hrs. pumping 45 g.p.m.																						
Well Head Completion		Pitless adapter manufacturer WHITEWATER Model																						
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade																						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																								
NO REMARKS Located Carver Land & Water Services Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 03/06/2007 System UTM - Nad83, Zone15, Meters X: 424167 Y: 4953104		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																						
		Grout Material: Neat Cement from 0 to 30 ft. 4 bags																						
		Grout Material: Bentonite from 30 to 215 ft.																						
		Nearest Known Source of Contamination																						
		70 feet E direction Barnyard type																						
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Pump <input type="checkbox"/> Not Installed Date Installed 08/15/1994																								
Manufacturer's name RED JACKET Model number 100CNS1-																								
CN514 HP 1 Volts 230																								
Length of drop Pipe 120 ft. Capacity 10 g.p.m																								
Type Submersible Material																								
Abandoned Wells Does property have any not in use and not sealed well(s)?																								
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																								
Well Contractor Certification																								
Bergerson-Caswell 27058 SCHULTZ, C.																								
License Business Name I.c. Or Reg. No. Name of Driller																								
First Bedrock		Aquifer Quat. Buried Artes. Aquifer																						
Last Strat Sand & larger		Depth to Bedrock ft.																						
County Well Index Online Report		549785																						
		Printed 6/27/2008 HE-01205-07																						

Minnesota Unique Well No.

590680

County Carver
 Quad Hamburg
 Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/04/2002
 Update Date 06/15/2007
 Received Date

Minnesota Statutes Chapter 1031

Well Name JOHNSON, DENNIS		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		130 ft.	130 ft.	10/10/1997
115	26 W 29 DBADAC	Elevation Method CALC FROM 2-FOOT COUNTY DEM		
Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic				
Casing Type Plastic		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Casing Diameter		Weight	Hole Diameter	
4 in. to 130 ft.		lbs./ft.	7.8 in. to 30 ft. 6.75 in. to 130 ft.	
Open Hole		from ft. to ft.		
Screen YES		Make JOHNSON	Type stainless steel	
Diameter		Slot/Gauze	Length	Set Between
2.5		12	8	122 ft. and 130 ft.
Geological Material		Color	Hardness	From To
CLAY		BROWN	MEDIUM	0 18
CLAY		GRAY	MEDIUM	18 120
SAND		GRAY	MEDIUM	120 130
Static Water Level		40 ft. from Land surface Date Measured 10/10/1997		
PUMPING LEVEL (below land surface)		50 ft. after 1 hrs. pumping 20 g.p.m.		
Well Head Completion		Pitless adapter manufacturer WHITEWATER Model		
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information		Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Grout Material: High solids bentonite		from 0 to 30 ft. 2 bags		
Nearest Known Source of Contamination		55 feet South East direction Septic tank/drain field type		
Well disinfected upon completion?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input type="checkbox"/> Not Installed		Date Installed 10/10/1997		
Manufacturer's name MEYERS		Model number HP 0.75 Volts 230		
Length of drop Pipe 80 ft.		Capacity 12 g.p.m		
Type Submersible		Material Plastic		
Abandoned Wells		Does property have any not in use and not sealed well(s)?		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Variance		Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Well Contractor Certification		Mathews Well Co. 43238 URAN, J		
License Business Name		Lic. Or Reg. No. Name of Driller		
First Bedrock		Aquifer Quat. Buried Artes. Aquifer		
Last Strat Sand-gray		Depth to Bedrock ft.		
County Well Index Online Report		590680		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

590889

County Carver
 Quad Hamburg
 Quad ID 91B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 02/04/2002
 Update Date 06/15/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name PANNING, PAUL				Well Depth 210 ft.		Depth Completed 210 ft.		Date Well Completed 11/26/1996																					
Township Range Dir Section Subsections Elevation 115 26 W 33 ABCCCD				Elevation Method CALC FROM 2-FOOT COUNTY DEM		Drilling Method Non-specified Rotary																							
Well Address 15175 MARTHA ST HAMBURG MN 55339 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BLACK</td> <td>SOFT</td> <td>0</td> <td>3</td> </tr> <tr> <td>YELLOW</td> <td>SOFT</td> <td>3</td> <td>20</td> </tr> <tr> <td>BLUE</td> <td>SOFT</td> <td>20</td> <td>200</td> </tr> <tr> <td></td> <td></td> <td>200</td> <td>210</td> </tr> </tbody> </table>				Color	Hardness	From	To	BLACK	SOFT	0	3	YELLOW	SOFT	3	20	BLUE	SOFT	20	200			200	210	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Color	Hardness	From	To																						
				BLACK	SOFT	0	3																						
				YELLOW	SOFT	3	20																						
				BLUE	SOFT	20	200																						
						200	210																						
				Use Domestic																									
				Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																									
				Casing Diameter 4 in. to 205 ft.		Weight lbs./ft.		Hole Diameter																					
				Open Hole from ft. to ft.																									
Screen YES		Make JOHNSON		Type stainless steel																									
Diameter 2		Slot/Gauze 18		Length 5		Set Between 205 ft. and 210 ft.																							
Static Water Level 120 ft. from Land surface Date Measured 11/26/1996																													
PUMPING LEVEL (below land surface) 144 ft. after 1 hrs. pumping 30 g.p.m.																													
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																													
NO REMARKS Located Carver Land & Water Services Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 03/06/2007 System UTM - Nad83, Zone15, Meters X: 424004 Y: 4953218				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 205 ft. 2 yds.																									
				Nearest Known Source of Contamination 60 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name STA-RITE Model number ___ IIP 0.75 Volts 22 Length of drop Pipe 144 ft. Capacity 12 g.p.m. Type Submersible Material																									
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
First Bedrock		Aquifer Quat. Buried Artes. Aquifer		Well Contractor Certification Braunwarth Well Co. 10068 BRAUNWARTH, M																									
Last Strat Sand		Depth to Bedrock ft.		License Business Name Lic. Or Reg. No. Name of Driller																									

County Well Index Online Report	590889	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

601609

County Carver
 Quad Hamburg
 Quad ID 91B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/30/1998
 Update Date 06/15/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name BUCKENTIN, GENE		Well Depth 211 ft.	Depth Completed 211 ft.	Date Well Completed 01/17/1998
Township Range Dir Section Subsections Elevation 115 26 W 32 DAADBD		Elevation Method CALC FROM 2-FOOT COUNTY DEM		
Drilling Method Non-specified Rotary				
Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic				
Casing Type Plastic		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Open Hole from ft. to ft.				
Screen YES		Make JOHNSON Type stainless steel		
Geological Material		Diameter	Slot/Gauze	Length
TOP SOIL	Color BLACK	Hardness SOFT	From 0	To 3
CLAY	YELLOW	SOFT	3	20
CLAY	BLUE	SOFT	20	125
SAND			125	130
CLAY	BLUE	MEDIUM	130	204
SAND			204	211
Well Address 15450 JACOB ST HAMBURG MN		Static Water Level 105 ft. from Land surface Date Measured 01/17/1998		
		PUMPING LEVEL (below land surface) 126 ft. after 1 hrs. pumping 40 g.p.m.		
		Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 206 ft. 2.5 yds.		
Located Carver Land & Water Services		Method Digitization (Screen) - Map (1:24,000)		
Unique Number		Date 03/05/2007		
Verification Address verification				
System UTM - Nad83, Zone15, Meters		X: 423099 Y: 4952689		
		Nearest Known Source of Contamination 100 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed 01/17/1998 Manufacturer's name STA RITE Model number HP 0.75 Volts 220 Length of drop Pipe 126 ft. Capacity 10 g.p.m. Type Submersible Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock		Well Contractor Certification Braunwarth Well Co. 10068 BRAUNWORTH, M		
Last Strat Sand	Aquifer Quat. Buried Artes. Aquifer	License Business Name Lic. Or Reg. No. Name of Driller		
	Depth to Bedrock ft.			

County Well Index Online Report	601609	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

601616

County Carver
 Quad Hamburg
 Quad ID 91B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 02/04/2002
 Update Date 06/15/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name VOI.LBRECHT, VIRGIL		Well Depth 106 ft.	Depth Completed 106 ft.	Date Well Completed 03/25/1998
Township Range Dir Section Subsections Elevation 115 26 W 29 CDCBCC		1006 ft. CALC FROM 2- FOOT COUNTY DEM		
Elevation Method		Drilling Method Non-specified Rotary		
Well Address 18180 50 CR HAMBURG MN		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 101 ft.	Weight lbs./ft.	Hole Diameter 4.5 in. to 106 ft.
		Open Hole from ft. to ft.		
		Screen YES	Make COOK	Type stainless steel
Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	20
CLAY	BLUE	SOFT	20	100
SAND			100	106
		Static Water Level 40 ft. from Land surface Date Measured 03/25/1998		
		PUMPING LEVEL (below land surface) 90 ft. after 1 hrs. pumping 40 g.p.m.		
		Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 101 ft. 1.5 yds.		
Located Carver Land & Water Services	Method Digitization (Screen) - Map (1:24,000)	Nearest Known Source of Contamination 75 feet W direction Barnyard type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number	Date 03/05/2007	Pump <input type="checkbox"/> Not Installed Date Installed 03/25/1998 Manufacturer's name STA-RITE Model number ___ HP 0.75 Volts 220 Length of drop Pipe 90 ft. Capacity 10 g.p.m. Type Submersible Material		
Verification Address verification	System UTM - Nad83, Zone15, Meters	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Well Contractor Certification Braunwarth Well Co. 10068 BRAUNWARTH, M License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand	Depth to Bedrock ft.			

County Well Index Online Report	601616	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

670839

County Carver
 Quad Hamburg
 Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/13/2004
 Update Date 06/15/2007
 Received Date 12/01/2003

Minnesota Statutes Chapter 1031

Well Name THAEMERT, DAVE		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		319 ft.	319 ft.	03/15/2003
115	26 W 28 DCDCBA	Elevation Method CALC FROM 2-FOOT COUNTY DEM		
Well Address		Drilling Method Non-specified Rotary		
953 PARK AV HAMBURG MN 55339		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Geological Material		Water	From Ft. to Ft.	
CLAY	BROWN	Use Domestic		
CLAY	GRAY	Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CLAY	GRAY	No Above/Below ft.		
WATER SAND	GRAY	Casing Diameter	Weight	Hole Diameter
		4 in. to 311 ft.	lbs./ft.	8.5 in. to 30 ft.
				6.5 in. to 319 ft.
		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
		Diameter	Slot/Gauze	Length
		4	12	8
				Set Between
				311 ft. and 319 ft.
		Static Water Level		
		75 ft. from Land surface Date Measured 03/15/2003		
		PUMPING LEVEL (below land surface)		
		250 ft. after 2 hrs. pumping 25 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer WHITEWATER Model 4 INCH		
		<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Grout Material: High solids bentonite from to 30 ft. 3 bags		
Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination		
Unique Number		75 feet North East direction Septic tank/drain field type		
Verification Address verification		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Date 03/05/2007		Pump <input type="checkbox"/> Not Installed Date Installed 03/15/2003		
System UTM - Nad83, Zone 15, Meters		Manufacturer's name AERMOTOR Model number SS-75		
X: 424226 Y: 4953687		HP 0.75 Volts 220		
		Length of drop Pipe 120 ft. Capacity 15 g.p.m.		
		Type Submersible Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes		
		<input checked="" type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock		Motzko Well Co. 86508 MOTZKO, R.		
Last Strat Sand-gray		License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer Quat. Buried Artes. Aquifer				
Depth to Bedrock ft.				
County Well Index Online Report		670839		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

679273

County Carver
 Quad Hamburg
 Quad ID 91B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 11/19/2002
 Update Date 08/06/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name SIWEK, DAVE		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		520 ft.	520 ft.	10/01/2002
115	26 W 33 ABCCCB	Elevation Method topographic map (+/- 5 feet)		
Drilling Method		Non-specified Rotary		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Bentonite		From Ft. to Ft.		
Use Domestic				
Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/>				
Yes <input type="checkbox"/> No Above/Below ft.				
Casing Diameter		Weight	Hole Diameter	
4 in. to 423 ft.		10.79 lbs./ft.	8 in. to 423 ft.	
			5 in. to 520 ft.	
Open Hole from 423 ft. to 520 ft.				
Screen NO Make Type				
Diameter		Slot/Gauze	Length	Set Between
Geological Material Color Hardness From To				
FILL	BROWN	SOFT	0	15
CLAY	BLUE	MEDIUM	15	280
SANDROCK	WHITE	SOFT	280	370
SHALE	BLUE	MEDIUM	370	420
SANDROCK	GREEN	MEDIUM	420	520
Static Water Level				
125 ft. from Land surface Date Measured 09/12/2002				
PUMPING LEVEL (below land surface)				
280 ft. after 2 hrs. pumping 20 g.p.m.				
Well Head Completion				
Pitless adapter manufacturer WHITEWATER Model SU4X5.5				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Grout Material: Neat Cement from 0 to 423 ft. 4 yds.				
Nearest Known Source of Contamination				
100 feet E direction Septic tank/drain field type				
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed 10/01/2002				
Manufacturer's name STA-RITE Model number 10P4E02				
HP 1 Volts 230				
Length of drop Pipe 210 ft. Capacity 10 g.p.m				
Type Submersible Material				
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Well Contractor Certification				
Kimmes-BauerDrilling 19738 OTTO. F.				
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Jordan		Aquifer Franconia		
Last Strat Franconia		Depth to Bedrock 280 ft.		
County Well Index Online Report		679273		Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name: Hardwick

Fire Department: Hardwick Fire Department
Route 1
Hardwick, MN 56134

Site Contact: Dan Kindt, Fire Chief
507-669-2491
dykindt@frontiernet.net

Training Location: Ball field parking lot, Hardwick

Type of foam used in training: Not specified, 3M foam assumed

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified

Nearest surface water: Mound Creek, 1/4 to 1/3 mile west

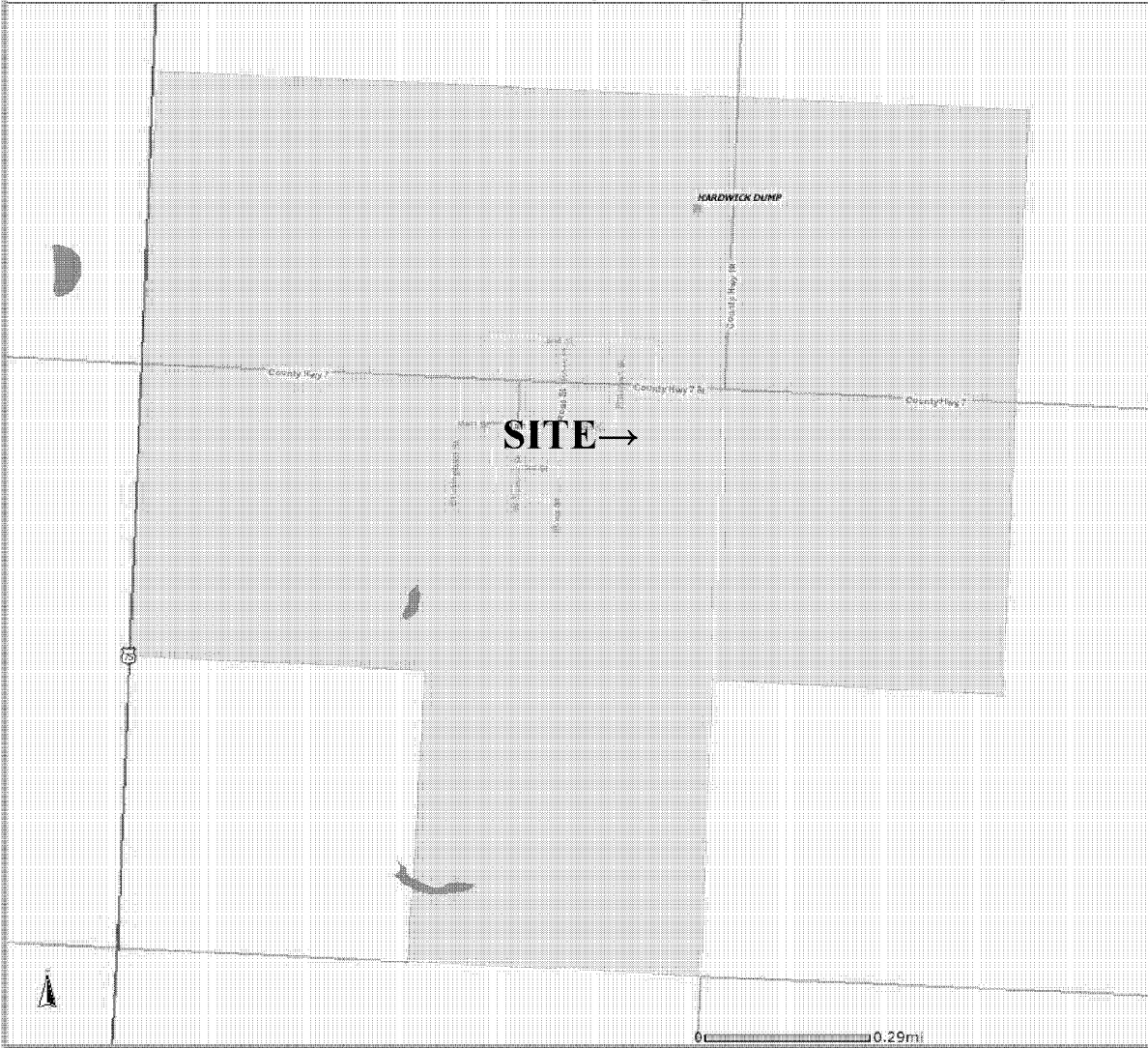
Nearest wetland: 1/4 to 1/3 mile west

Nearest water well: More than 1 mile

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 12

Hardwick What's In My Neighborhood Map

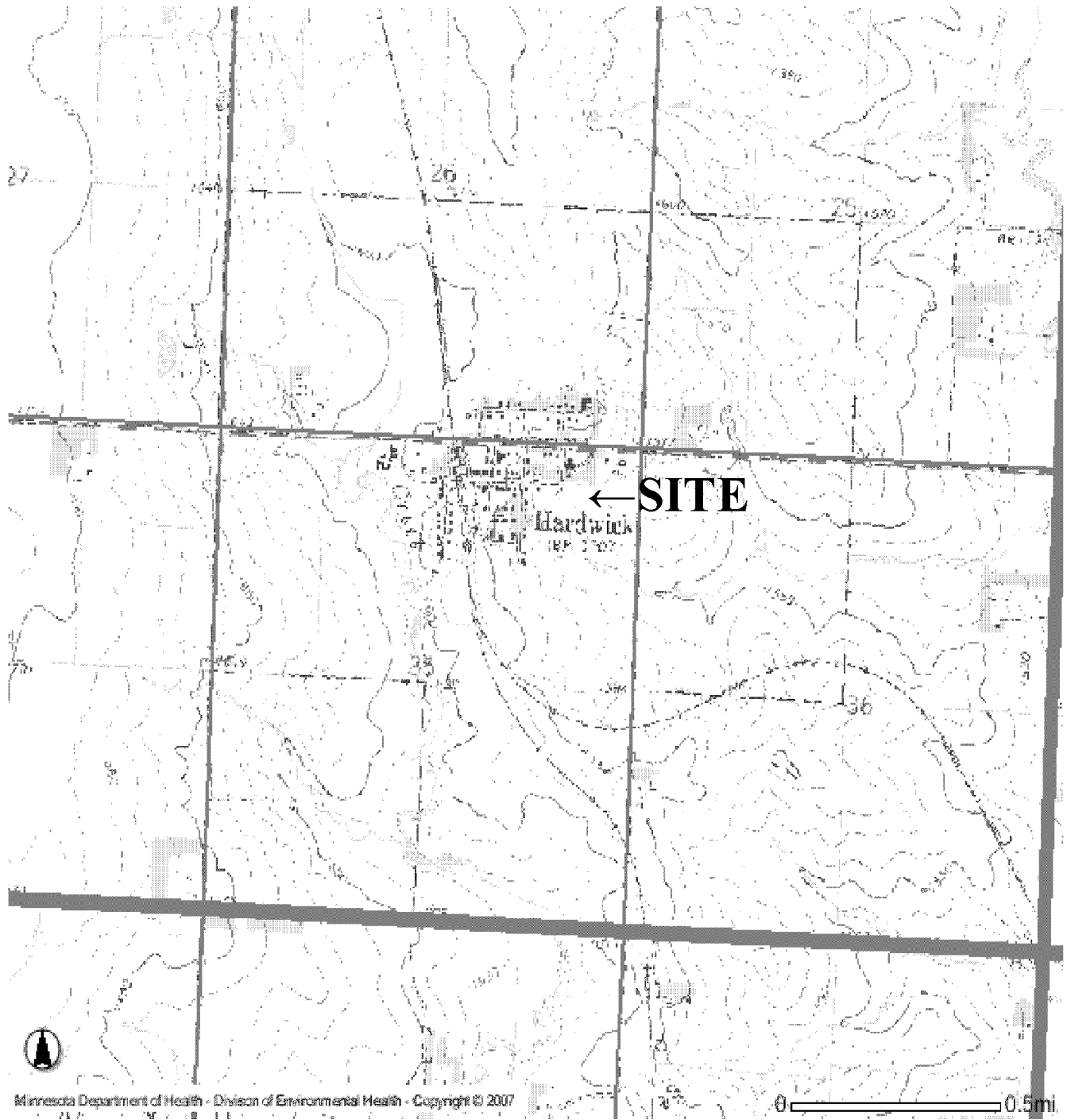


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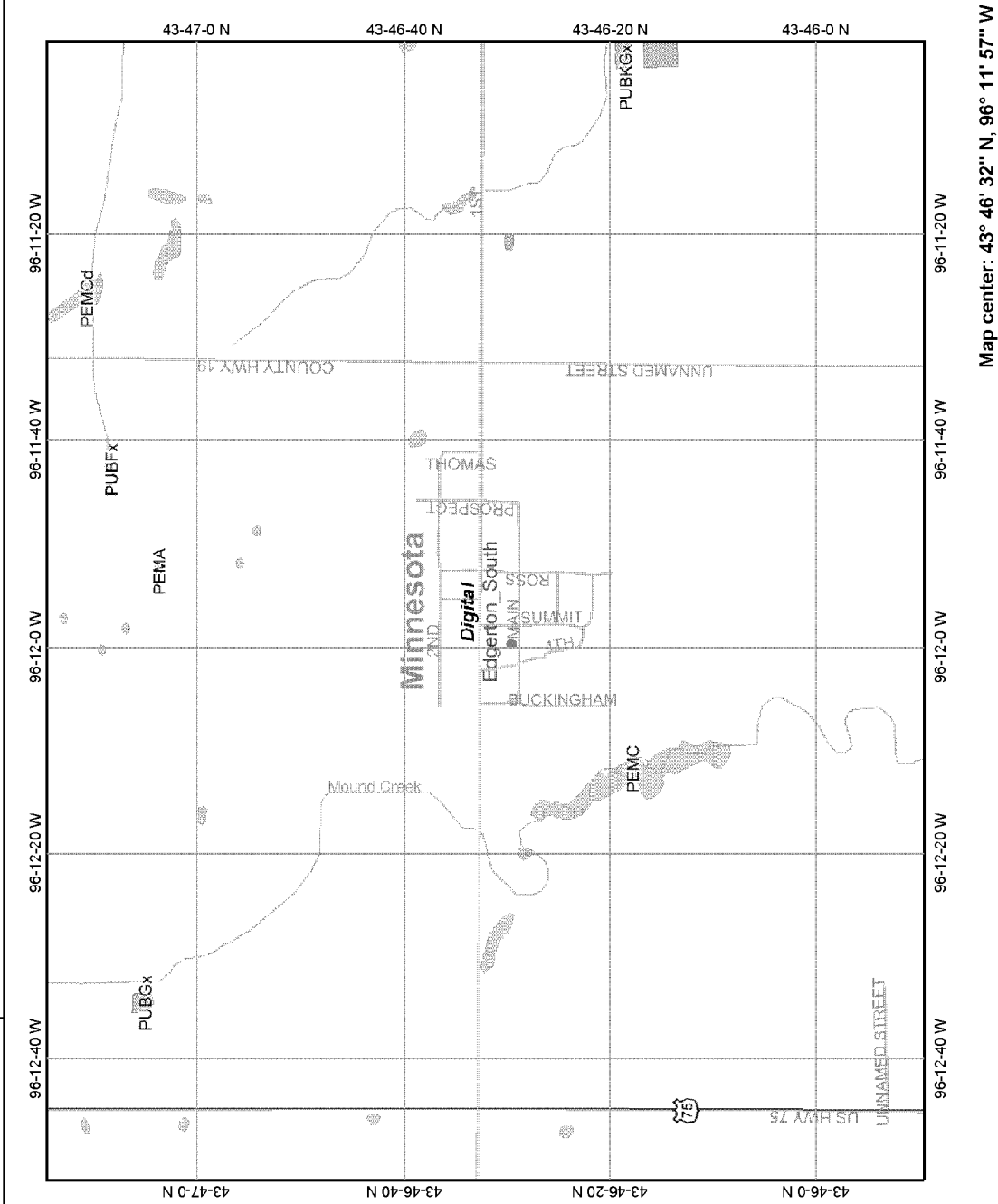
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

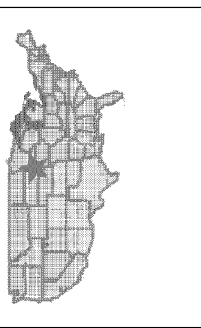
HARDWICK CWI Well Map



Hardwick Wetland Map



Map center: 43° 46' 32" N, 96° 11' 57" W



Legend

Ohio_wet_scan
 0
 1
 Out of range
 Interstate
 Major Roads
 Other Road
 Interstate
 State highway
 US highway
 Roads
 Cities
 USGS Quad Index 24K
 Lower 48 Wetland Polygons
 Estuarine and Marine Deepwater
 Estuarine and Marine Wetland
 Freshwater Emergent Wetland
 Freshwater Forested/Shrub Wetland
 Freshwater Pond
 Lake
 Other
 Riverine
 Lower 48 Available Wetland Data
 Non-Digital
 Digital
 No Data
 Scan
 NHD Streams
 Counties 100K
 States 100K
 South America
 North America

Scale: 1:18,389

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

SITE SUMMARY

Site Name: Harmony

Fire Department: Harmony Fire Department
PO Box 344
Harmony, MN 55939

Site Contact: Bill Hanlon, Fire Chief
507-886-4600 D (5211 Hall)
harmonyvfd@yahoo.com

Training Location: Fire hall, Main Avenue S., and a brush dump, east of intersection of 139 & Gordon Rd. (not mappable)

Type of foam used in training: AR-AFFF: Ansulite
Class A: Silv-ex
Other: Aqua Eco

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AR-AFFF: less than 5 gallons
Class A: under 5 gallons
Other: 1 stick

Nearest surface water: Intermittent stream approximately 1/4 mile south

Nearest wetland: Approximately 1/4 mile south

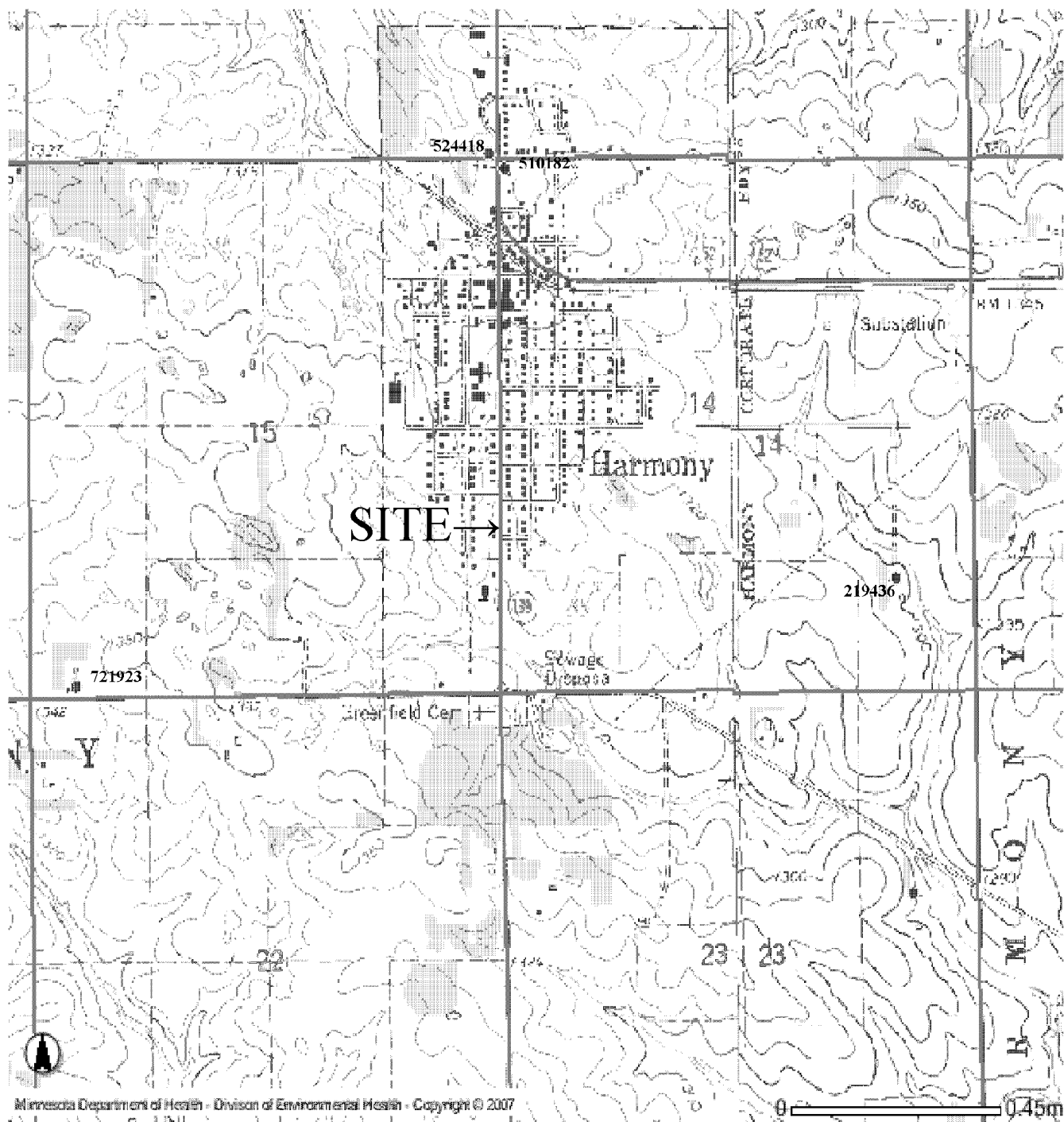
Karst Area: Training site is located in an active karst area

Nearest water well: 1/2 to 1 mile to the east and to the southwest

Nearest Wellhead Protection Area: More than 1 mile

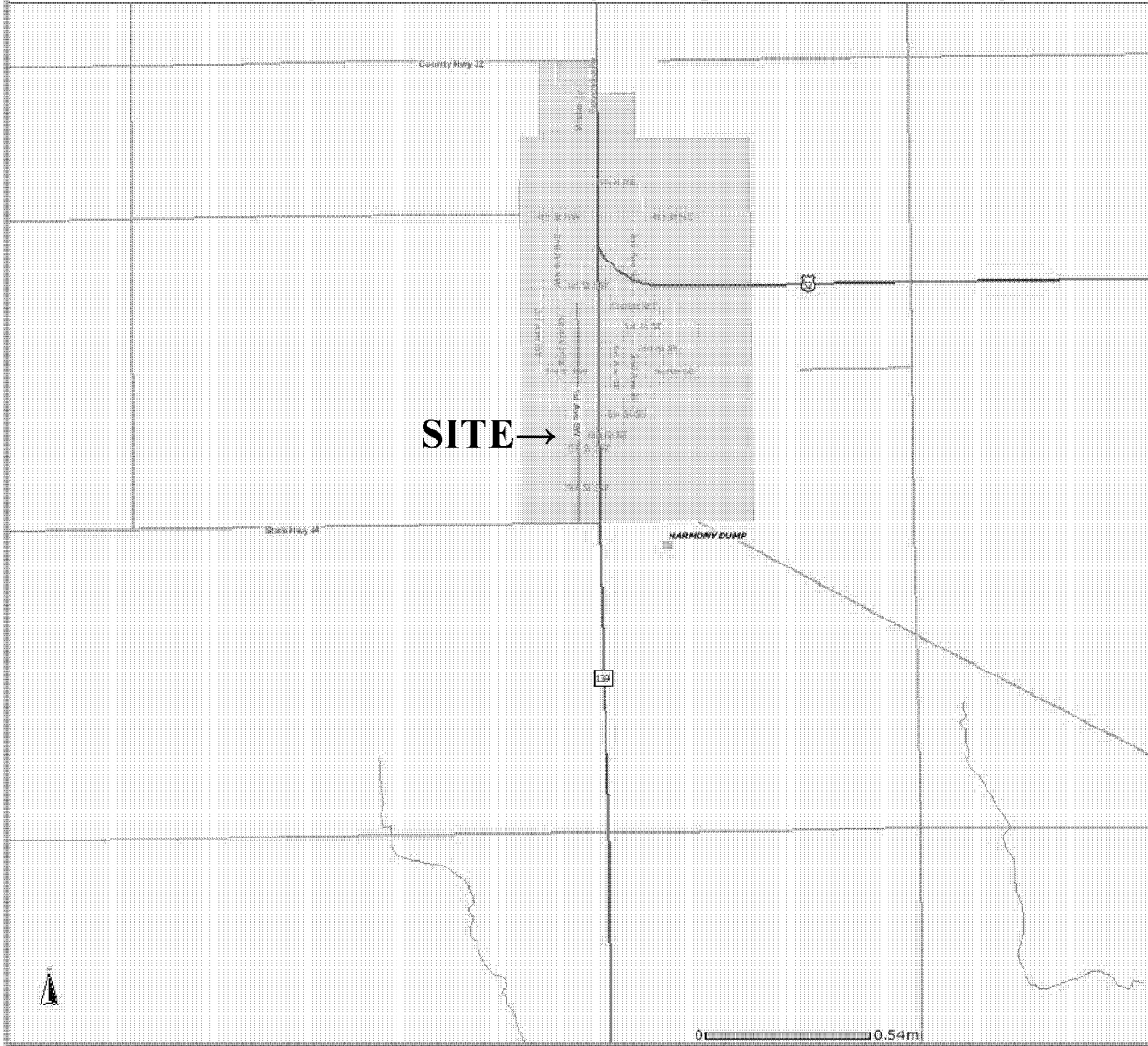
SITE RANKING: 14

HARMONY CWI Well Map



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Harmony What's In My Neighborhood Map

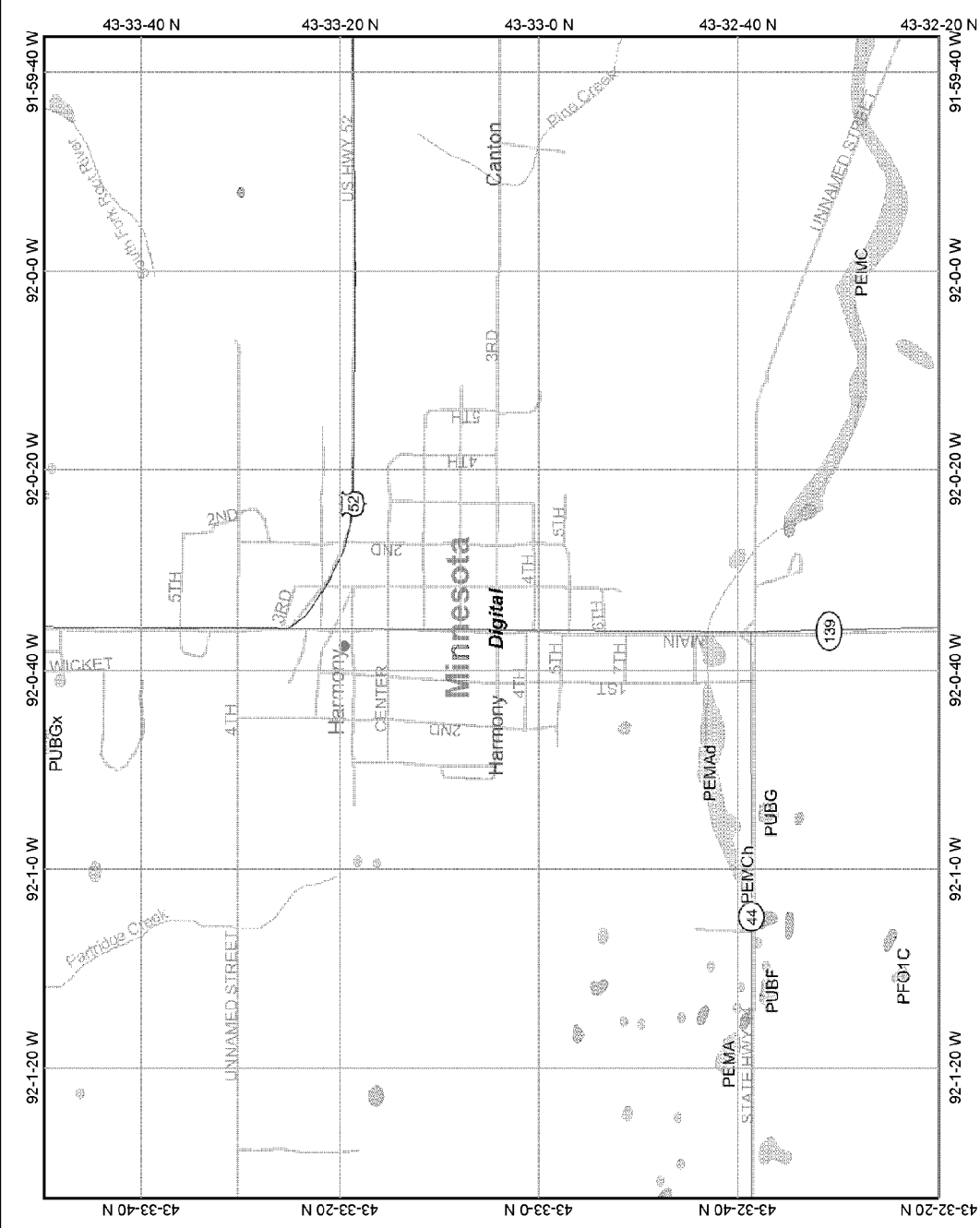


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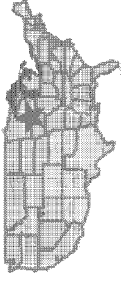
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Harmony Wetland Map



Map center: 43° 33' 5" N, 92° 0' 35" W



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
 - Other Road
 - Interstate
 - State highway
 - US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
 - South America
 - North America

Scale: 1:19,398

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Minnesota Unique Well No.

219436

County Fillmore
 Quad Canton
 Quad ID 4C

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 1031

Entry Date 12/14/1991
 Update Date 05/19/1993
 Received Date

Well Name STEFFENRUD, PERCY Township Range Dir Section Subsections Elevation 101 10 W 14 DDBACC Elevation Method 1305 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 380 ft. Depth Completed 380 ft. Date Well Completed 04/28/1959 Drilling Method Non-specified Rotary	
Well Address HARMONY MN		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Geological Material DRIFT PROSSER LIME DECORAH SHALE PLATTEVILLE GLENWOOD ST. PETER SHAKOPEE ROOT VALLEY		Use Domestic Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Joint <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Color Hardness From To		Casing Diameter 8 in. to 289 ft. lbs./ft. 4 in. to 289 ft. lbs./ft. Weight Hole Diameter	
Open Hole from 289 ft. to 380 ft.		Screen NO Make Type	
Diameter Slot/Gauze Length Set Between		Static Water Level 278 ft. from Land surface Date Measured 04/28/1959 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.	
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 289 ft. 0	
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Name on mailbox System UTM - Nad83, Zone15, Meters X: 581331 Y: 4822057		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	
NO REMARKS		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 00/00/1959 Manufacturer's name MEYERS Model number HP 1 Volts Length of drop Pipe 300 ft. Capacity 12 g.p.m. Type Submersible Material	

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification Rowland Well Co. <u>23124</u> License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>First Bedrock Galena Last Strat Shakopee/New Richmond Mbr</p>	<p>Aquifer Prairie Du Chien Group Depth to Bedrock 17 ft.</p>
<p>County Well Index Online Report</p>	
<p>219436</p>	
<p>Printed 6/27/2008 HE-01205-07</p>	

Minnesota Unique Well No.

510182

County Fillmore
 Quad Harmony
 Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/09/1992
 Update Date 05/19/1993
 Received Date

Well Name CANTON STATE BANK Township Range Dir Section Subsections Elevation 1335 ft. 101 10 W 14 BBBB B Elevation Method topographic map (+/- 5 feet)		Well Depth 178 ft. Depth Completed 178 ft. Date Well Completed 06/18/1990
Well Address 360 MAIN ST N HARMONY MN		Drilling Method Air Rotary Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material CLAY FRACTURED LIMESTONE LIMESTONE SHALY LIMESTONE		Use Monitor well Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.
Color GRAY Hardness SOFT From 0 To 26 BROWN HARD 26 43 GRAY HARD 43 170 GRAY HARD 170 178		Casing Diameter 12 in. to 26 ft. lbs./ft. Hole Diameter 12 in. to 58 ft. 8 in. to 58 ft. lbs./ft. 8 in. to 148 ft.
Static Water Level 171 ft. from Land surface Date Measured 06/18/1990		Open Hole from 148 ft. to 178 ft.
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 58 ft. 3.5 yds. Grout Material: Neat Cement from 0 to 148 ft. 0
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Other, note in remarks Date N/A System UTM - Nad83, Zone15, Meters X: 579988 Y: 4823286		Nearest Known Source of Contamination 0 feet direction Other type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Galena Aquifer Galena Last Strat Galena Depth to Bedrock 26 ft.		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Braun Env Lab M0077 LARSON, D. License Business Name Lic. Or Reg. No. Name of Driller
		510182 Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

524418

County Fillmore
 Quad Harmony
 Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/06/1993
 Update Date 04/21/2008
 Received Date

Well Name KWIK TRIP STORE MW-3 Township Range Dir Section Subsections Elevation 1330 ft. 101 10 W 10 DDDDDC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 164 ft. Depth Completed 164 ft. Date Well Completed 10/29/1993
		Drilling Method Multiple methods used
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Abandoned Status Sealed
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 0 ft.
		Casing Diameter 3 in. to 70 ft. Weight lbs./ft. Hole Diameter 12 in. to 11 ft. 8 in. to 70 ft.
		Open Hole from 70 ft. to 164 ft.
		Screen NO Make Type
		Diameter Slot/Gauze Length Set Between
Well Address 415 MAIN AV N HARMONY MN 55939		
Geological Material TOPSOIL DK. BRN 0 2 NO RECORD 2 11 LIMESTONE/DOLOMITE WITH CHERT TAN/GRY HARD 11 164		
		Static Water Level 77 ft. from Land surface Date Measured 11/01/1993
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL SEALED 09-22-2000 BY 34625 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 70 ft. 12 bags
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Other, Date 06/22/2004 note in remarks System UTM - Nad83, Zone15, Meters X: 579935 Y: 4823332		Nearest Known Source of Contamination 75 feet E direction Volatile organic compounds type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Braun Intertec Eng M0104 TAVES, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		524418
		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

721923

County Fillmore
 Quad Harmony
 Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/04/2006
 Update Date 02/16/2006
 Received Date 09/30/2005

Minnesota Statutes Chapter 103I

Well Name F., JAMES		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		485 ft.	485 ft.	09/20/2005	
101	10 W 15 CCCDDB	Elevation Method (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Non-specified Rotary			
Well Address RR 1 BOX 5802 HARMONY MN 55939 Geological Material Color Hardness From To CLAY BROWN 0 18 LIMESTONE GRY/BRN SFT-MED 18 239 SHALE BLUE MEDIUM 239 274 LIMESTONE BROWN HARD 274 296 SHALE GREEN MEDIUM 296 307 SANDSTONE GRAY MEDIUM 307 390 DOLOMITE GRAY HARD 390 454 SANDSTONE BROWN MEDIUM 454 477 DOLOMITE GRAY HARD 477 485		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Domestic			
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/>			
		Yes <input type="checkbox"/> No Above/Below ft.			
Casing Diameter		Weight	Hole Diameter		
4 in. to 413 ft.		lbs./ft.	10 in. to 19 ft		
			8 in. to 413 ft		
Open Hole from 413 ft. to 485 ft.					
Screen NO		Make Type			
Diameter		Slot/Gauze	Length	Set Between	
Static Water Level					
311 ft. from Land surface Date Measured 09/20/2005					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer MONITOR Model FEEDLOT					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS					
PARCEL#R 14.0093.000					
Located Minnesota Department of Health		Method GPS SA Off (averaged)			
Unique Number Verification N/A		Date 09/15/2005			
System UTM - Nad83, Zone15, Meters		X: 578520 Y: 4821731			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Grout Material: Neat Cement		from	to 413 ft.	5.25 yds.	
Grout Material: Pearock		from	to 240 ft.	1 yds.	
Nearest Known Source of Contamination					
125 feet N direction Feedlot type					
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Pump <input type="checkbox"/> Not Installed Date Installed 09/20/2005					
Manufacturer's name GRUNDFOS		Model number 25S50-26			
HP 5		Volts 230			
Length of drop Pipe 336 ft.		Capacity 33 g.p.m			
Type Submersible Material					
Abandoned Wells Does property have any not in use and not sealed well(s)?					
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Well Contractor Certification					
Rowland Well Co.		23474	ROWLAND S.		
License Business Name		I.c. Or Reg. No.	Name of Driller		
First Bedrock		Aquifer			
Last Strat		Depth to Bedrock		ft.	
County Well Index Online Report		721923		Printed 6/27/2008 HE-01205-07	

SITE SUMMARY

Site Name: Hibbing

Fire Department: Hibbing Fire Department
2320 Brooklyn Drive
Hibbing, MN 55746

Site Contact: Tony Pogorels, Fire Chief
218-362-5966
tpogorels@ci.hibbing.mn.us

Training Location: 2320 Brooklyn Drive, Hibbing

Type of foam used in training: Other: HCT F-500

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Class A: 5 gallons
Other: 10 gallons

Nearest surface water: Bryan Lake, 1/2 to 3/4 mile southeast

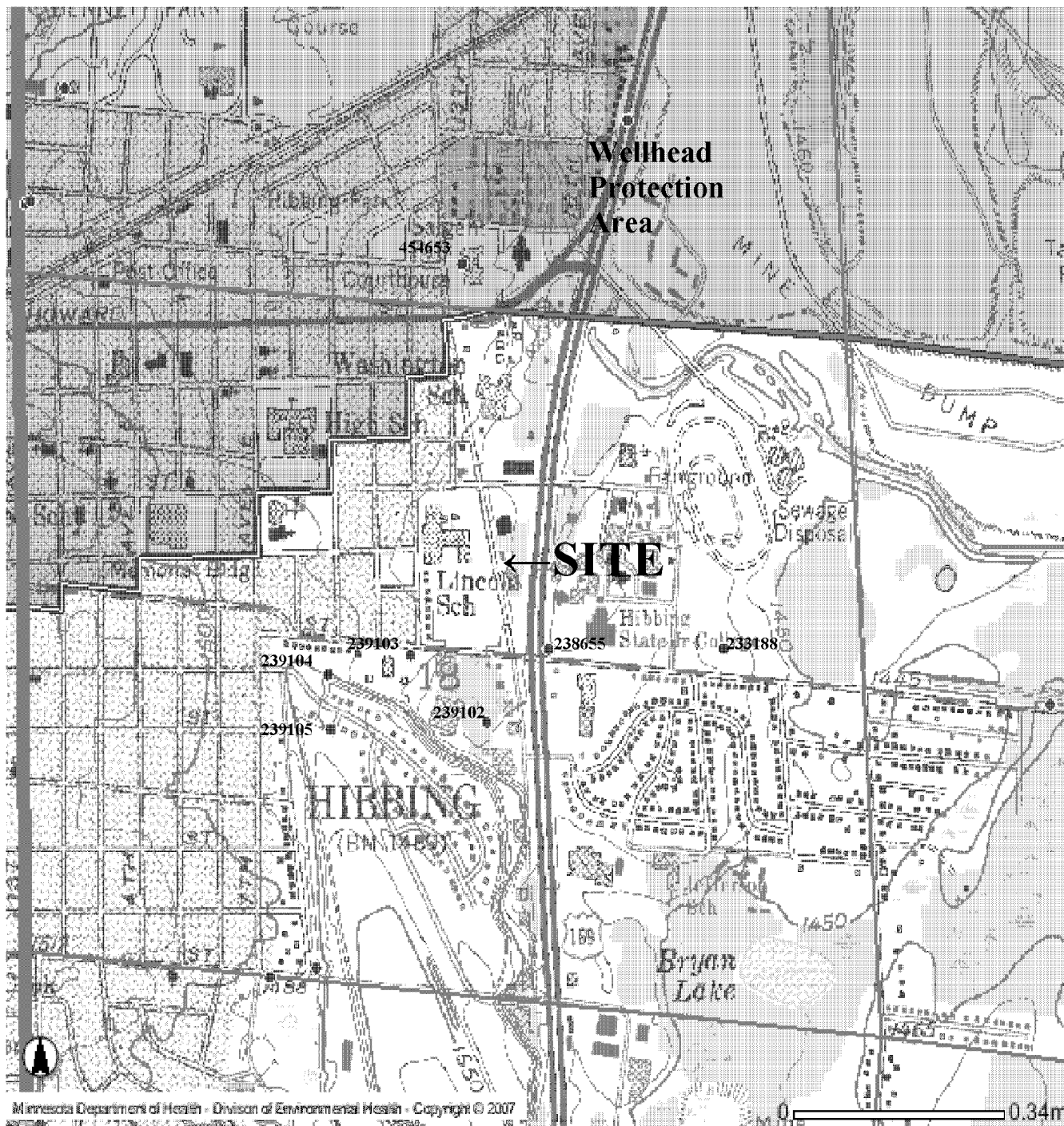
Nearest wetland: 1/4 to 1/3 mile east

Nearest water well: Less than 1/4 mile south

Nearest Wellhead Protection Area: Approximately 1/4 mile northwest

SITE RANKING: 11

HIBBING CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Hibbing What's In My Neighborhood Map

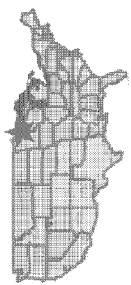
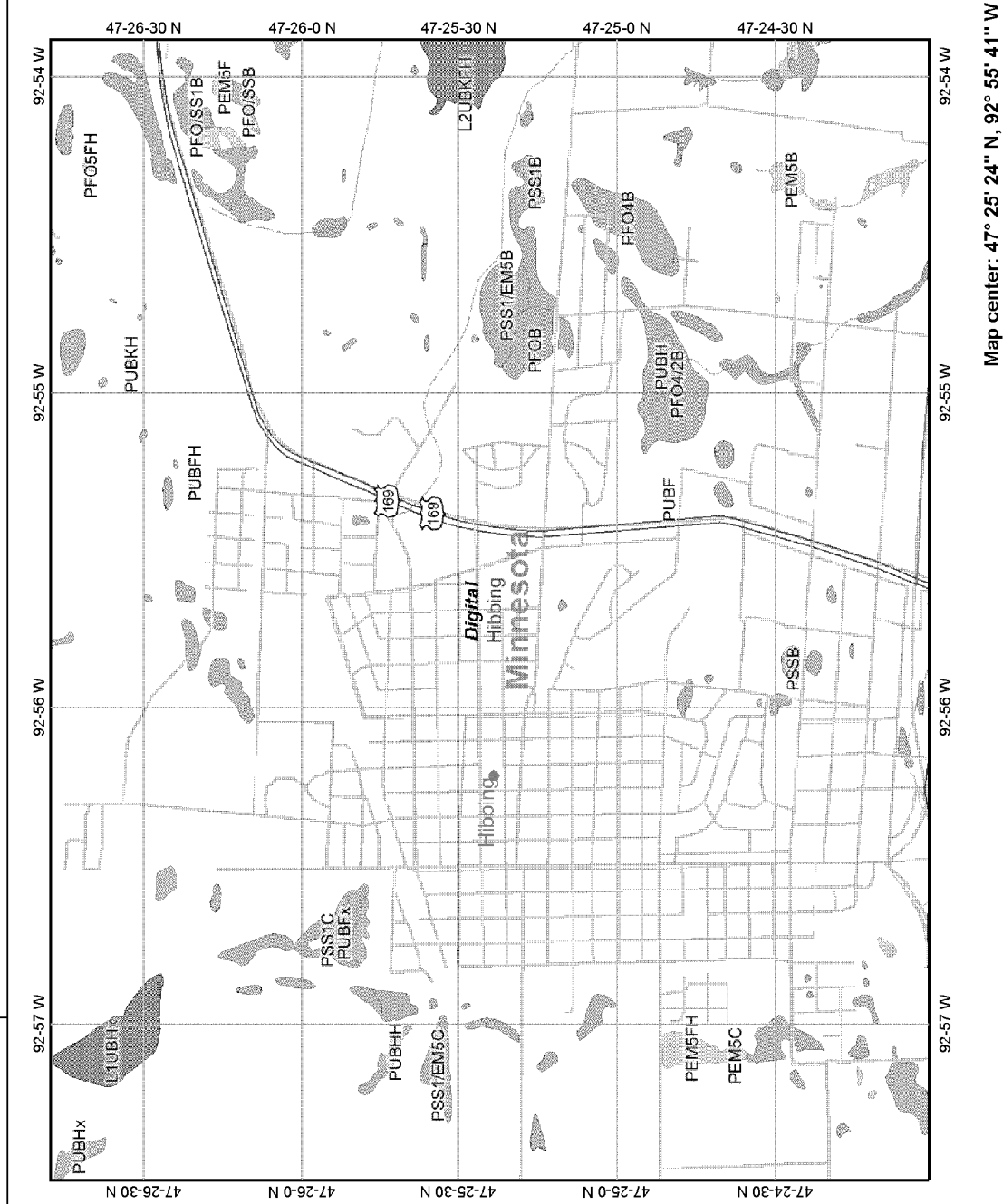


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Hibbing Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:36,079

Map center: 47° 25' 24" N, 92° 55' 41" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

233188

County St. Louis
 Quad Hibbing
 Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/22/1988
 Update Date 03/11/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name HIBBING TH4		Well Depth 243 ft.	Depth Completed 243 ft.	Date Well Completed 05/00/1956																																																																
Township Range Dir Section Subsections Elevation 1463 ft.		Drilling Method Cable Tool																																																																		
57 20 W 18 ADCCAD Elevation Method topographic map (1/- 5 feet)																																																																				
Well Address HIBBING MN 55746 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>CCLAY TILL</td><td>RED</td><td>0</td><td>13</td></tr> <tr><td>CLAY TILL</td><td>RED/BRN</td><td>13</td><td>18</td></tr> <tr><td>TILL</td><td></td><td>18</td><td>23</td></tr> <tr><td>SAND</td><td></td><td>23</td><td>28</td></tr> <tr><td>CLAY</td><td></td><td>28</td><td>43</td></tr> <tr><td>SAND</td><td></td><td>43</td><td>63</td></tr> <tr><td>CLAY</td><td></td><td>63</td><td>68</td></tr> <tr><td>SAND</td><td></td><td>68</td><td>88</td></tr> <tr><td>CLAY & BOULDERS</td><td></td><td>88</td><td>133</td></tr> <tr><td>CLAY WHITE, BLUE, RED</td><td></td><td>133</td><td>195</td></tr> <tr><td>LIGNITE</td><td></td><td>195</td><td>197</td></tr> <tr><td>CLAY</td><td></td><td>197</td><td>208</td></tr> <tr><td>SAND</td><td></td><td>208</td><td>214</td></tr> <tr><td>CLAY</td><td></td><td>214</td><td>219</td></tr> <tr><td>SLATE</td><td></td><td>214</td><td>243</td></tr> </tbody> </table>		Color	Hardness	From	To	CCLAY TILL	RED	0	13	CLAY TILL	RED/BRN	13	18	TILL		18	23	SAND		23	28	CLAY		28	43	SAND		43	63	CLAY		63	68	SAND		68	88	CLAY & BOULDERS		88	133	CLAY WHITE, BLUE, RED		133	195	LIGNITE		195	197	CLAY		197	208	SAND		208	214	CLAY		214	219	SLATE		214	243	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To																																																															
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		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																																		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																		
REMARKS WELL DRILLED BY MCCARTY WELL CO. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 506218 Y: 5251929		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																		
		Nearest Known Source of Contamination _feet _direction _type																																																																		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																																		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																		
First Bedrock Cretaceous,Undiff.		Well Contractor Certification																																																																		
Last Strat Virginia Formation		United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller																																																																		
Aquifer Depth to Bedrock 133 ft.																																																																				
County Well Index Online Report		233188		Printed 6/27/2008 HE-01205-07																																																																

Minnesota Unique Well No.

238655

County St. Louis
 Quad Buhl
 Quad ID 294A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/22/1988
 Update Date 03/11/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name HIBBING TH6		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		200 ft.	200 ft.	00/00/1956	
57	20 W 18 ACCCCA	Elevation Method topographic map (1/- 5 feet)			
Well Address HIBBING MN 55746 Geological Material Color Hardness From To CLAY TILL RED 0 18 TILL 18 69 SILT 69 87 SAND, GRAVEL, CLAY 87 90 TILL 90 125 SILT 125 140 TILL 140 155 SHALE 155 200		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Test well			
		Casing Type		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		No Above/Below ft.			
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen		Make	Type
		Diameter	Slot/Gauze	Length	Set Between
		Static Water Level			
ft. from Date Measured					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS WELL DRILLED BY MCCARTHY WELL CO. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 505761 Y: 5251927		Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
Manufacturer's name Model number __ HP _ Volts					
Length of drop Pipe _ft. Capacity _g.p.m Type Material					
Abandoned Wells Does property have any not in use and not sealed well(s)?					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes					
<input type="checkbox"/> No					
Well Contractor Certification					
First Bedrock Cretaceous,Undiff.		Aquifer			
Last Strat		Depth to Bedrock 155 ft.			
United States Geological Survey		USGS	SCHULTZ, C.		
License Business Name		Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		238655	Printed 6/27/2008 HE-01205-07		

Minnesota Unique Well No.

239102

County St. Louis
 Quad Hibbing
 Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/22/1988
 Update Date 03/16/2001
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name HIBBING OIM3</p> <p>Township Range Dir Section Subsections Elevation 1468 ft.</p> <p>57 20 W 18 CAACDB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 256 ft. Depth Completed 256 ft. Date Well Completed</p> <p>Drilling Method --</p>																																											
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr><td>CLAY</td><td></td><td></td><td>0</td><td>10</td></tr> <tr><td>GRAVEL</td><td></td><td></td><td>10</td><td>20</td></tr> <tr><td>CLAY</td><td></td><td></td><td>20</td><td>40</td></tr> <tr><td>GRAVEL & SEAMS OF FINE SAND</td><td></td><td></td><td>40</td><td>100</td></tr> <tr><td>CLAY</td><td></td><td></td><td>100</td><td>256</td></tr> <tr><td>BEDROCK</td><td></td><td></td><td>256</td><td>256</td></tr> </tbody> </table>		Color	Hardness	From	To	CLAY			0	10	GRAVEL			10	20	CLAY			20	40	GRAVEL & SEAMS OF FINE SAND			40	100	CLAY			100	256	BEDROCK			256	256	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Test well</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen Make Type</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</p> <p><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between				
		Color	Hardness	From	To																																							
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	Diameter	Slot/Gauze	Length	Set Between																																								
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 505599 Y: 5251760</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed</p> <p>Manufacturer's name Model number __ HP_ Volts</p> <p>Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																											
<p>First Bedrock Virginia Formation Aquifer</p> <p>Last Strat Depth to Bedrock 256 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification</p> <p>United States Geological Survey <u>USGS</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>																																											
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">239102</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>																																											

Minnesota Unique Well No.

239103

County St. Louis
 Quad Hibbing
 Quad ID 294B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 02/22/1988
 Update Date 01/18/2003
 Received Date

Minnesota Statutes Chapter 103I

Well Name USGS 18L-TH1					Well Depth	Depth Completed	Date Well Completed																																				
Township Range Dir Section Subsections Elevation					1485 ft.	124 ft.	124 ft.	07/25/1957																																			
57	20	W	18	CABBAB	Elevation Method	Drilling Method Non-specified Rotary																																					
					7.5 minute topographic map (+/- 5 feet)																																						
<table style="width:100%; border-collapse: collapse;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>CLAY TILL</td> <td>RED</td> <td></td> <td>0</td> <td>11</td> </tr> <tr> <td>CLAY TILL</td> <td>RED/BRN</td> <td></td> <td>11</td> <td>25</td> </tr> <tr> <td>SAND & GRAVEL</td> <td></td> <td></td> <td>25</td> <td>35</td> </tr> <tr> <td>TILL</td> <td></td> <td></td> <td>35</td> <td>54</td> </tr> <tr> <td>SAND & GRAVEL</td> <td></td> <td></td> <td>54</td> <td>115</td> </tr> <tr> <td>CLAY</td> <td></td> <td></td> <td>115</td> <td>124</td> </tr> </table>					Geological Material	Color	Hardness	From	To	CLAY TILL	RED		0	11	CLAY TILL	RED/BRN		11	25	SAND & GRAVEL			25	35	TILL			35	54	SAND & GRAVEL			54	115	CLAY			115	124	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Geological Material	Color	Hardness	From	To																																		
					CLAY TILL	RED		0	11																																		
					CLAY TILL	RED/BRN		11	25																																		
					SAND & GRAVEL			25	35																																		
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					Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
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					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																						
<i>NO REMARKS</i>					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
Located Minnesota Geological Survey					Method Digitized - scale 1:24,000 or larger (Digitizing Table)																																						
Unique Number					Nearest Known Source of Contamination																																						
Verification Information from owner					_feet _direction _type																																						
System UTM - Nad83, Zone15, Meters					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
X: 505400 Y: 5251914					Pump <input type="checkbox"/> Not Installed Date Installed																																						
					Manufacturer's name Model number __ HP _ Volts																																						
					Length of drop Pipe _ft. Capacity _g.p.m Type Material																																						
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					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
					Well Contractor Certification																																						
First Bedrock					United States Geological Survey USGS SCHOCK, O.																																						
Last Strat Clay					License Business Name Lic. Or Reg. No. Name of Driller																																						
Aquifer																																											
Depth to Bedrock ft.																																											

County Well Index Online Report	239103	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

239105

County St. Louis
 Quad Hibbing
 Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/22/1988
 Update Date 03/16/2001
 Received Date

Minnesota Statutes Chapter 1031

Well Name HIBBING OIM2		Well Depth	Depth Completed	Date Well Completed																																													
Township Range Dir Section Subsections Elevation		330 ft.	330 ft.																																														
57	20 W 18 CBDBAB	Elevation Method topographic map (+/- 5 feet)																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>CLAY</td><td></td><td></td><td>0</td><td>25</td></tr> <tr><td>QUICKSAND</td><td></td><td></td><td>25</td><td>45</td></tr> <tr><td>CLAY</td><td></td><td></td><td>45</td><td>55</td></tr> <tr><td>GRAVEL & BOULDERS</td><td></td><td></td><td>55</td><td>95</td></tr> <tr><td>CLAY & A LITTLE SAND</td><td></td><td></td><td>95</td><td>155</td></tr> <tr><td>FINE SAND</td><td></td><td></td><td>155</td><td>205</td></tr> <tr><td>SEAMS OF CLAY SAND</td><td></td><td></td><td>205</td><td>330</td></tr> <tr><td>BEDROCK</td><td></td><td></td><td>330</td><td>330</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CLAY			0	25	QUICKSAND			25	45	CLAY			45	55	GRAVEL & BOULDERS			55	95	CLAY & A LITTLE SAND			95	155	FINE SAND			155	205	SEAMS OF CLAY SAND			205	330	BEDROCK			330	330	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Geological Material	Color	Hardness	From	To																																											
		CLAY			0	25																																											
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<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																																	
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NO REMARKS																																																	
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)																																															
Unique Number		Date N/A																																															
Verification Information from owner																																																	
System UTM - Nad83, Zone15, Meters X: 505193 Y: 5251744																																																	
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																	
Nearest Known Source of Contamination																																																	
_feet _direction _type																																																	
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																	
Pump <input type="checkbox"/> Not Installed Date Installed																																																	
Manufacturer's name Model number __ HP_ Volts																																																	
Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																	
Abandoned Wells Does property have any not in use and not sealed well(s)?																																																	
<input type="checkbox"/> Yes <input type="checkbox"/> No																																																	
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes																																																	
<input type="checkbox"/> No																																																	
Well Contractor Certification																																																	
First Bedrock Virginia Formation		Aquifer																																															
Last Strat		Depth to Bedrock 330 ft.																																															
United States Geological Survey		USGS																																															
License Business Name		Lic. Or Reg. No. Name of Driller																																															
County Well Index Online Report		239105		Printed 6/27/2008 HE-01205-07																																													

Minnesota Unique Well No.

454653

County St. Louis
 Quad Hibbing
 Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 11/15/1990
 Update Date 12/16/2002
 Received Date

<p>Well Name COUNTY COURT HOUSE Township Range Dir Section Subsections Elevation 1485 ft. 57 20 W 7 DCCBDC Elevation Method 7.5 minute topographic map (-/+ 5 feet)</p>	<p>Well Depth 445 ft. Depth Completed 445 ft. Date Well Completed 02/22/1989 Drilling Method Air Rotary</p>																																																																																				
<p>Well Address HOWARD ST HIBBING MN 55746</p>	<p>Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>																																																																																				
<p>Geological Material</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BROWN</td><td>MEDIUM</td><td>0</td><td>20</td></tr> <tr><td>BROWN</td><td>HARD</td><td>20</td><td>38</td></tr> <tr><td>BROWN</td><td>MEDIUM</td><td>38</td><td>45</td></tr> <tr><td>BROWN</td><td>MED-HRD</td><td>45</td><td>60</td></tr> <tr><td>BROWN</td><td>MEDIUM</td><td>60</td><td>77</td></tr> <tr><td>GRAY</td><td>MED-HRD</td><td>77</td><td>94</td></tr> <tr><td>GRAY</td><td>HARD</td><td>94</td><td>120</td></tr> <tr><td>GRAY</td><td>MED-HRD</td><td>120</td><td>130</td></tr> <tr><td>GRAY</td><td>HARD</td><td>130</td><td>175</td></tr> <tr><td>BROWN</td><td>HARD</td><td>175</td><td>183</td></tr> <tr><td>GRAY</td><td></td><td>183</td><td>214</td></tr> <tr><td>DK. GRY</td><td>HARD</td><td>214</td><td>220</td></tr> <tr><td>BLACK</td><td></td><td>220</td><td>255</td></tr> <tr><td>BLACK</td><td>MED-HRD</td><td>255</td><td>266</td></tr> <tr><td>BLK/GRY</td><td>MEDIUM</td><td>266</td><td>290</td></tr> <tr><td>GREEN</td><td>MED-HRD</td><td>290</td><td>332</td></tr> <tr><td>BLACK</td><td>MED-HRD</td><td>332</td><td>430</td></tr> <tr><td>GRAY</td><td>V.HARD</td><td>430</td><td>445</td></tr> </tbody> </table>	Color	Hardness	From	To	BROWN	MEDIUM	0	20	BROWN	HARD	20	38	BROWN	MEDIUM	38	45	BROWN	MED-HRD	45	60	BROWN	MEDIUM	60	77	GRAY	MED-HRD	77	94	GRAY	HARD	94	120	GRAY	MED-HRD	120	130	GRAY	HARD	130	175	BROWN	HARD	175	183	GRAY		183	214	DK. GRY	HARD	214	220	BLACK		220	255	BLACK	MED-HRD	255	266	BLK/GRY	MEDIUM	266	290	GREEN	MED-HRD	290	332	BLACK	MED-HRD	332	430	GRAY	V.HARD	430	445	<p>Use Other (specify in remarks)</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</p> <p>Casing Diameter 6 in. to 261 ft. Weight 19.45 lbs./ft. Hole Diameter 9 in. to 261 ft. 6 in. to 445 ft.</p> <p>Open Hole from 261 ft. to 445 ft.</p> <p>Screen NO Make Type</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between				
Color	Hardness	From	To																																																																																		
BROWN	MEDIUM	0	20																																																																																		
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DK. GRY	HARD	214	220																																																																																		
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BLACK	MED-HRD	255	266																																																																																		
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Diameter	Slot/Gauze	Length	Set Between																																																																																		
<p>REMARKS ONLY ABOUT 15 GPM (NEEDS 150) HOLE TO BE ABANDONED. USE OF WELL WAS FOR COOLING.</p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Date 09/22/2004 Verification Information from owner System UTM - Nad83, Zone15, Meters X: 505535 Y: 5252807</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft.</p> <p>Nearest Known Source of Contamination 50 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																																																																				
<p>First Bedrock Aquifer Last Strat Depth to Bedrock 255 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Petersen Well Co. 69183 PETERSEN, D. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																																				
<p>County Well Index Online Report</p>	<p style="text-align: center;">454653</p> <p style="text-align: right;">Printed 6/27/2008 HE-01205-07</p>																																																																																				

SITE SUMMARY

Site Name: Hopkins

Fire Department: Hopkins Fire Department
1010 1st Street South
Hopkins, MN 55343

Site Contact: Dale Specken, Fire Chief
952-548-6451
d.specken@hopkinsmn.com

Training Location: 101 17th Ave. S., Hopkins

Type of foam used in training: Training foam: 3M
Other: HCT F-500

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: Class A: 10 gallons
Training Foam: 10 gallons
Other (Chemguard A/B): 10 gallons
Other (HCT F-500): not specified

Nearest surface water: Intermittent stream less than 1/4 mile east

Nearest wetland: 1/4 to 1/3 mile northwest

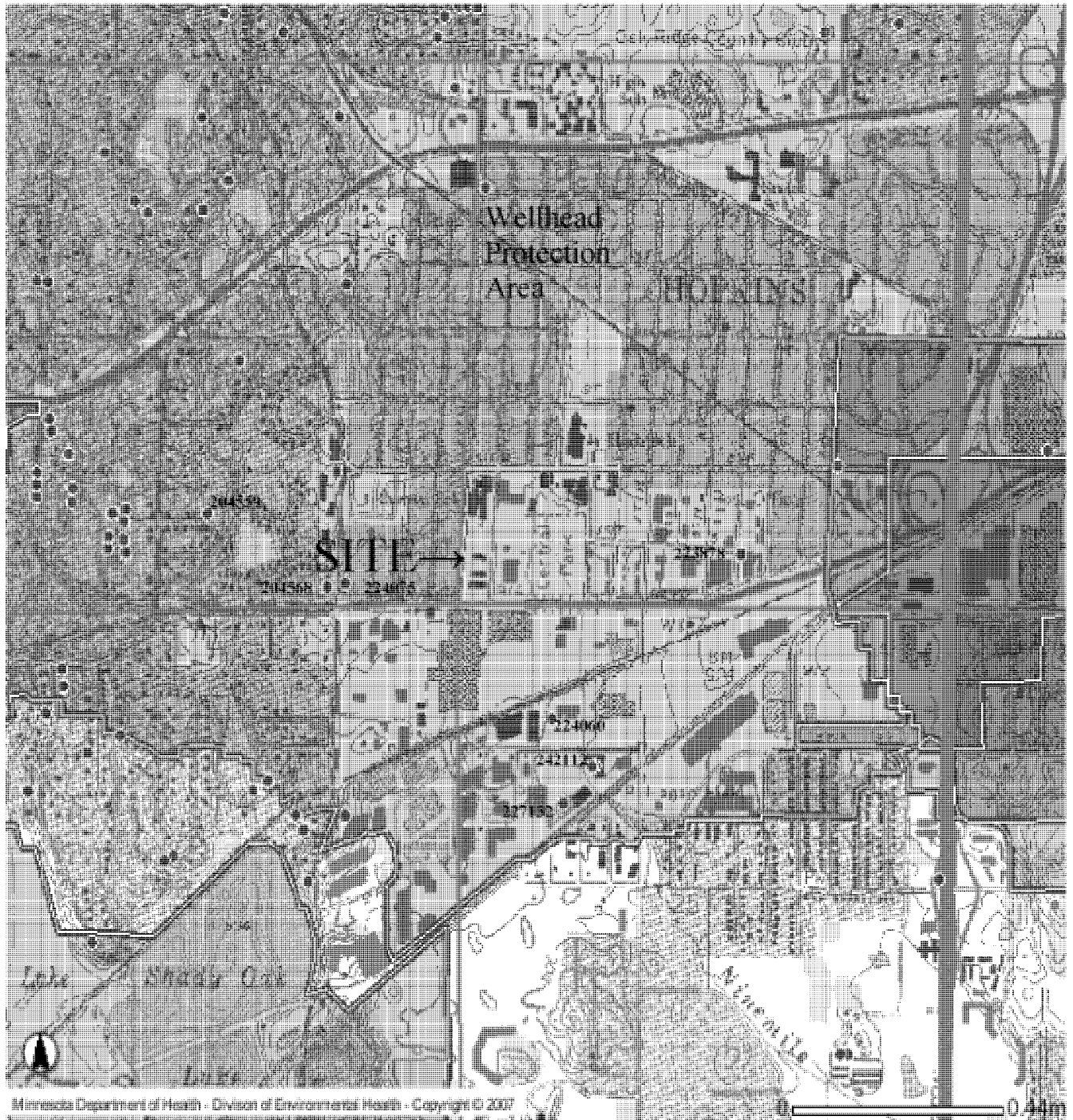
Karst Area: Training site is located in a transition or covered karst area

Nearest water well: Approximately 1/4 mile west

Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 18

HOPKINS CWI Well Map



Hopkins What's In My Neighborhood Map

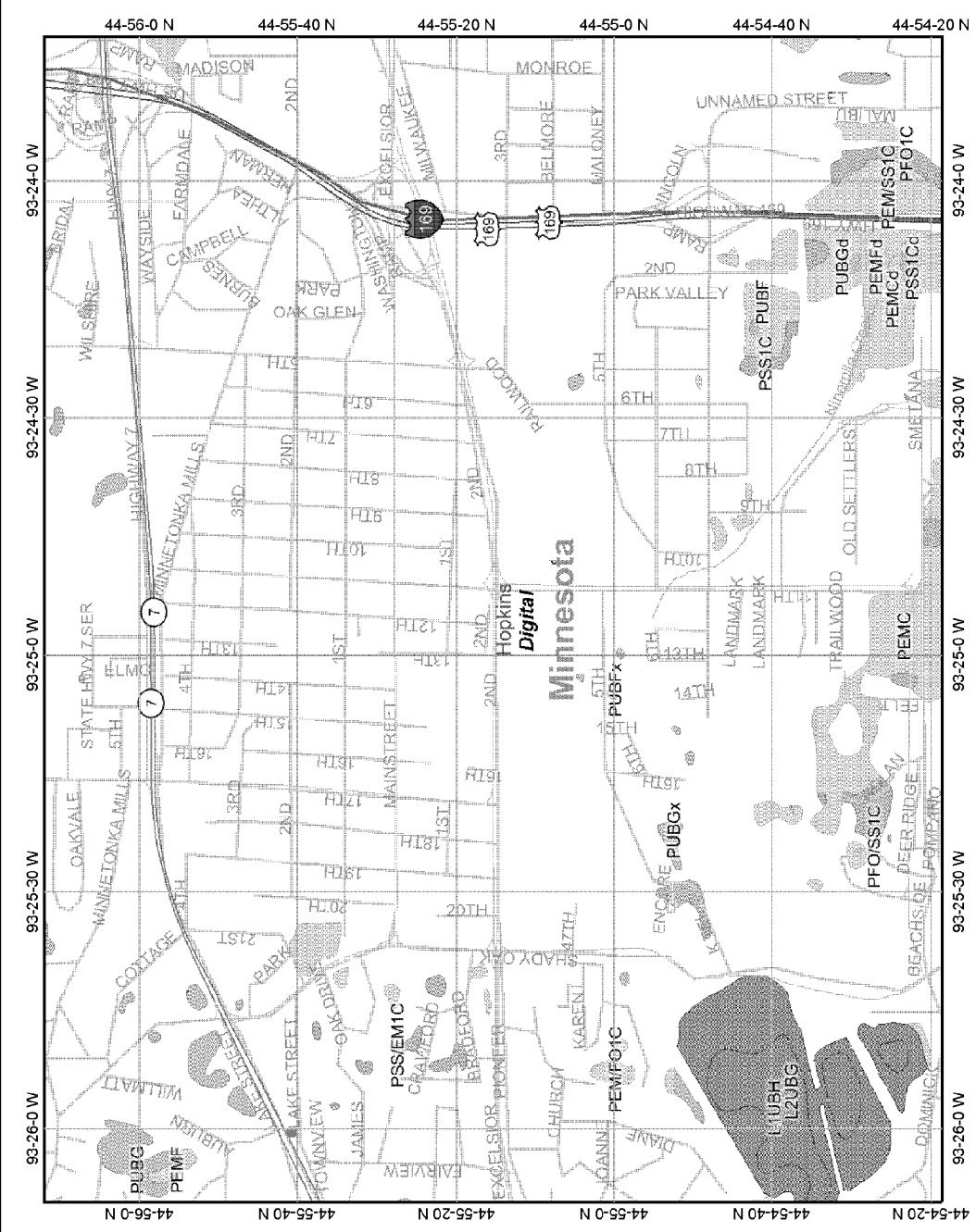


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

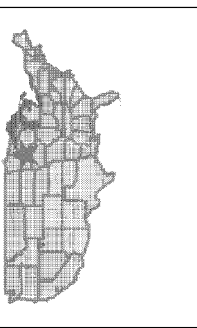
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Hopkins Wetland Map



Map center: 44° 55' 15" N, 93° 24' 55" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,537

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

204559

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name ROY TARASCH		Well Depth 138 ft.	Depth Completed 138 ft.	Date Well Completed		
Township Range Dir Section Subsections Elevation 117 22 W 23 CDAADC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --				
Well Address 12000 SUNRISE MINNETONKA MN Geological Material GRAVEL LIMEROCK		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Domestic				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.				
		Casing Diameter 4 in. to 126 ft.		Weight lbs./ft.	Hole Diameter	
		Open Hole from 126 ft. to 138 ft.				
		Screen NO Make Type				
		Diameter		Slot/Gauze	Length	Set Between
		From To 0 126 126 138				
		Static Water Level ft. from Date Measured				
		PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 50 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A System UTM - Nad83, Zone15, Meters X: 465858 Y: 4974506		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material				
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Platteville		Aquifer Platteville				
Last Strat Platteville		Depth to Bedrock 126 ft.				
		Well Contractor Certification <u>Rogers Well Co.</u> <u>27014</u> License Business Name Lic. Or Reg. No. Name of Driller				

County Well Index Online Report	204559	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

204568

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**
*Minnesota Statutes Chapter
 103I*

Entry Date 08/24/1991
 Update Date 06/03/2004
 Received Date

Well Name WESTERN-OIL COMPANY				Well Depth 910 ft.		Depth Completed 97 ft.		Date Well Completed 01/00/1960																															
Township Range Dir Section Subsections Elevation				7.5 minute topographic map (+/- 5 feet)		Drilling Method --																																	
117	22	W	23	DCDDDB	Elevation Method																																		
Well Address MINNETONKA MN <table border="0" style="width: 100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SILT</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>SANDY MUD</td> <td>BLACK</td> <td></td> <td>5</td> <td>6</td> </tr> <tr> <td>SANDY MUD</td> <td>GRAY</td> <td></td> <td>6</td> <td>88</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td></td> <td>88</td> <td>90</td> </tr> <tr> <td>LIMESTONE</td> <td>GRAY</td> <td></td> <td>90</td> <td>97</td> </tr> </table>					Geological Material	Color	Hardness	From	To	SILT			0	5	SANDY MUD	BLACK		5	6	SANDY MUD	GRAY		6	88	SAND	GRAY		88	90	LIMESTONE	GRAY		90	97	Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Geological Material	Color	Hardness	From	To																														
					SILT			0	5																														
					SANDY MUD	BLACK		5	6																														
					SANDY MUD	GRAY		6	88																														
					SAND	GRAY		88	90																														
					LIMESTONE	GRAY		90	97																														
					--		From Ft. to Ft.																																
					Use Commercial																																		
					Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																																		
Casing Diameter		Weight		Hole Diameter																																			
4 in. to 91 ft.		lbs./ft.																																					
Open Hole from 91 ft. to 97 ft.																																							
Screen NO		Make	Type																																				
Diameter	Slot/Gauze	Length	Set Between																																				
Static Water Level																																							
17 ft. from Land surface Date Measured 01/00/1960																																							
PUMPING LEVEL (below land surface)																																							
17 ft. after hrs. pumping 25 g.p.m.																																							
Well Head Completion																																							
Pitless adapter manufacturer Model																																							
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																							
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																							
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification N/A System UTM - Nad83, Zone 15, Meters X: 466256 Y: 4974293					Nearest Known Source of Contamination																																		
					_feet _direction _type																																		
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																		
					Pump <input type="checkbox"/> Not Installed Date Installed																																		
Manufacturer's name		Model number		HP 0 Volts																																			
Length of drop Pipe _ft.		Capacity _g.p.m		Type Material																																			
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																							
Well Contractor Certification																																							
First Bedrock Platteville		Aquifer Platteville																																					
Last Strat Platteville		Depth to Bedrock 90 ft.																																					
<u>Renner E.H. & Sons</u>		<u>27015</u>																																					
License Business Name		Lic. Or Reg. No. Name of Driller																																					

County Well Index Online Report	204568	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

223878

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name WALTER REINSTR		Well Depth	Depth Completed	Date Well Completed				
Township Range Dir Section Subsections Elevation		64 ft.	64 ft.	07/24/1972				
117	22 W 24 DCCBAD	Elevation Method topographic map (+/- 5 feet)						
Well Address 101 8TH AV S HOPKINS MN Geological Material SAND CLAY & GRAVEL WATER SAND Color BROWN BROWN GRAY Hardness From To 0 26 26 41 41 64		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No					
		--	From Ft. to Ft.					
		Use Domestic						
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.						
		Casing Diameter		Weight	Hole Diameter			
		4 in. to 59 ft.		lbs./ft.				
		Open Hole from ft. to ft.						
		Screen YES Make Type stainless steel						
		Diameter	Slot/Gauze	Length	Set Between			
		2	10	6	0 ft. and ft.			
Static Water Level								
32 ft. from Land surface Date Measured 07/24/1972								
PUMPING LEVEL (below land surface)								
32 ft. after hrs. pumping 20 g.p.m.								
Well Head Completion								
Pitless adapter manufacturer Model								
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade								
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)								
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No								
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Address verification System UTM - Nad83, Zone15, Meters X: 467633 Y: 4974387					Nearest Known Source of Contamination			
					_feet _direction _type			
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
					Pump <input type="checkbox"/> Not Installed Date Installed			
Manufacturer's name Model number HP 0 Volts								
Length of drop Pipe _ft. Capacity _g.p.m Type Material								
Abandoned Wells Does property have any not in use and not sealed well(s)?								
<input type="checkbox"/> Yes <input type="checkbox"/> No								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes								
<input type="checkbox"/> No								
Well Contractor Certification								
First Bedrock		Aquifer Quat. Buried Artes. Aquifer						
Last Strat Sand-gray		Depth to Bedrock ft.						
County Well Index Online Report		223878		Printed 6/27/2008 HE-01205-07				

Minnesota Unique Well No.

224060

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		145 ft.	145 ft.	10/06/1973
117	22 W 25 BBDDBC	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Drilling Method		--		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use		Domestic		
Casing Type		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
No Above/Below 0 ft.				
Casing Diameter		Weight	Hole Diameter	
4 in. to 140 ft.		lbs./ft.		
Open Hole		from ft. to ft.		
Screen		Make Type		
Diameter		Slot/Gauze	Length	Set Between
GRAVEL & ROCK FILL				0 2
PEAT				2 25
GRAVEL & CLAY				25 130
LIMEROCK				130 132
COARSE GRAVEL				132 145
Static Water Level		5 ft. from Land surface Date Measured 10/06/1973		
PUMPING LEVEL (below land surface)		5 ft. after hrs. pumping 35 g.p.m.		
Well Head Completion		Pitless adapter manufacturer Model		
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<i>NO REMARKS</i>				
Located	Minnesota Geological Survey	Method	Digitized - scale 1:24,000 or larger (Digitizing Table)	
Unique Number		Date	N/A	
Verification	Address verification	System	UTM - Nad83, Zone15, X: 467003 Y: 4973908	
System	UTM - Nad83, Zone15, Meters			
Pump		<input type="checkbox"/> Not Installed Date Installed		
Manufacturer's name		Model number	HP	Volts
Length of drop Pipe		ft.	Capacity	g.p.m. Type Material
Abandoned Wells		Does property have any not in use and not sealed well(s)?		
<input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance		Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> No				
Well Contractor Certification		Dependable Well Co. 27143		
License Business Name		Lic. Or Reg. No. Name of Driller		
First Bedrock		Aquifer Quat. Buried Artes. Aquifer		
Last Strat		Sand Depth to Bedrock ft.		
County Well Index Online Report		224060		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

224075

County Hennepin
 Quad Hopkins
 Quad ID 104B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name O. PORT Township Range Dir Section Subsections Elevation 913 ft. 117 22 W 23 DDCCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 67 ft. Depth Completed 67 ft. Date Well Completed 12/01/1958 Drilling Method --
Well Address 169 SHADY OAK RD HOPKINS MN Geological Material Color Hardness From To HARD STONES BROWN 0 24 SAND GRAY 24 66 SANDY CLAY 66 67		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Domestic
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.
		Casing Diameter Weight Hole Diameter 4 in. to ft. lbs./ft.
		Open Hole from ft. to ft.
		Screen YES Make EVERDUR Type Diameter Slot/Gauze Length Set Between 4 20 0 0 ft. and ft.
		Static Water Level 42 ft. from Land surface Date Measured 12/01/1958
		PUMPING LEVEL (below land surface) 44 ft. after hrs. pumping 16 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
		NO REMARKS
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Other, note in remarks Date N/A System UTM - Nad83, Zone15, Meiers X: 466316 Y: 4974303		Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name MYERS Model number SA 75 A4 ___ HP 0.75 ___ Volts Length of drop Pipe 50 ft. Capacity 15 g.p.m. Type Submersible Material
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Till Depth to Bedrock ft.		Well Contractor Certification <u>Renner E.H. & Sons</u> <u>27015</u> License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	224075	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

227132

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 12/02/2004
 Received Date

<p>Well Name Township Range Dir Section Subsections Elevation 900 ft. 117 22 W 25 BCADDB Elevation Method topographic map (+/- 5 feet)</p>	<p>Well Depth 363 ft. Depth Completed 363 ft. Date Well Completed 06/06/1967 Drilling Method --</p>																																																																																											
<p>Well Address 1202 5TH ST HOPKINS MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr><td>SAND</td><td>YELLOW</td><td>0</td><td>5</td></tr> <tr><td>PEAT</td><td>BLACK</td><td>5</td><td>20</td></tr> <tr><td>SAND</td><td>GRAY</td><td>20</td><td>30</td></tr> <tr><td>SAND</td><td>BROWN</td><td>30</td><td>40</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>40</td><td>51</td></tr> <tr><td>CLAY + STONES</td><td>BROWN</td><td>51</td><td>112</td></tr> <tr><td>LIMEROCK</td><td>GRAY</td><td>112</td><td>116</td></tr> <tr><td>SHALE, SOFT LIMEROCK</td><td>GRAY</td><td>116</td><td>120</td></tr> <tr><td>SANDSTONE</td><td>GRAY</td><td>120</td><td>130</td></tr> <tr><td>GRAVEL LIMEROCK</td><td>BROWN</td><td>130</td><td>153</td></tr> <tr><td>ST. PETER SANDROCK</td><td>WHITE</td><td>153</td><td>183</td></tr> <tr><td>SHALE</td><td>LIGHT</td><td>183</td><td>194</td></tr> <tr><td>SHALE</td><td>RED</td><td>194</td><td>196</td></tr> <tr><td>SHALE</td><td>GRAY</td><td>196</td><td>215</td></tr> <tr><td>SANDROCK</td><td>WHITE</td><td>215</td><td>250</td></tr> <tr><td>SHAKOPEE</td><td>PINK</td><td>250</td><td>363</td></tr> </tbody> </table>	Color	Hardness	From	To	SAND	YELLOW	0	5	PEAT	BLACK	5	20	SAND	GRAY	20	30	SAND	BROWN	30	40	CLAY	BLUE	40	51	CLAY + STONES	BROWN	51	112	LIMEROCK	GRAY	112	116	SHALE, SOFT LIMEROCK	GRAY	116	120	SANDSTONE	GRAY	120	130	GRAVEL LIMEROCK	BROWN	130	153	ST. PETER SANDROCK	WHITE	153	183	SHALE	LIGHT	183	194	SHALE	RED	194	196	SHALE	GRAY	196	215	SANDROCK	WHITE	215	250	SHAKOPEE	PINK	250	363	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Commercial</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Casing Diameter</th> <th style="width:30%;">Weight</th> <th style="width:40%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>12 in. to 213 ft.</td> <td>lbs./ft.</td> <td></td> </tr> <tr> <td>10 in. to 257 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from 257 ft. to 363 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Screen NO</th> <th style="width:15%;">Make</th> <th style="width:70%;">Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Static Water Level 65 ft. from Land surface Date Measured 06/06/1967</p> <p>PUMPING LEVEL (below land surface) 90 ft. after hrs. pumping 600 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	12 in. to 213 ft.	lbs./ft.		10 in. to 257 ft.	lbs./ft.		Screen NO	Make	Type				Diameter	Slot/Gauze	Length	Set Between				
	Color	Hardness	From	To																																																																																								
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<p>REMARKS CASING: 12 TO 213; 10 TO 257.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 467041 Y: 4973662</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name JACUZZI Model number 10MSA5 BOWL _ HP 40_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material</p>																																																																																											
<p>First Bedrock St.Peter Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 153 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Renner F.h. & Sons 02015 License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																																											
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">227132</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>																																																																																											

Minnesota Unique Well No.

242112

County Hennepin
 Quad Hopkins
 Quad ID 104B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 10/11/1995
 Received Date

Minnesota Statutes Chapter 103I

Well Name THERMOTECH NO.1		Well Depth 380 ft.	Depth Completed 380 ft.	Date Well Completed 08/29/1966		
Township Range Dir Section Subsections Elevation 117 22 W 25 BDBBBD Elevation Method topographic map (+/- 5 feet)		Drilling Method --				
Well Address 1202 5TH ST S HOPKINS MN Geological Material CLAY 0 115 GRAVEL BROKEN LIMESTONE 115 132 SOFT SANDSTONE 132 190 SHALE 190 214 HARD SANDSTONE 214 251 SHAKOPEE 251 370 JORDAN SANDSTONE 370 380		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Commercial				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.				
		Casing Diameter 12 in. to 222 ft.		Weight lbs./ft.	Hole Diameter	
		Open Hole from 222 ft. to 380 ft.				
		Screen NO Make Type				
		Diameter		Slot/Gauze	Length	Set Between
		Static Water Level 64 ft. from land surface Date Measured 08/29/1966				
		PUMPING LEVEL (below land surface) 79 ft. after hrs. pumping 550 g.p.m.				
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS GAMMA LOGGED + TV ON 7-20-88. SWL=120.6 FT. GAMMA LOG INDICATES GAMMA LOGGED + TV ON 7-20-88. SWL=120.6 FT. GAMMA LOG INDICATES OPDC. OPDC. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 467138 Y: 4973769		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Well Contractor Certification <u>Renner E.h. & Sons</u> <u>02015</u>				
		License Business Name Lic. Or Reg. No. Name of Driller				
		County Well Index Online Report		242112	Printed 6/27/2008 HE-01205-07	

SITE SUMMARY

Site Name: Hoyt Lakes

Fire Department: Hoyt Lakes Fire Department
City Hall
Hoyt Lakes, MN 55750

Site Contact: Steve Stoks, Fire Chief
218-225-2000

Training Location: Triple ballfields or near Hoyt Lakes fire hall, 123-1/2 Kennedy Memorial Drive, Hoyt Lakes

Type of foam used in training: Class A-B Hi Expansion: Jet-x
Class A: Ansulite
Class A: Silv-ex
Other: Dawn dish soap

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: less than 5 gallons
Class A-B Hi Expansion: 5 gallons
Class A: 20 gallons

Nearest surface water: Colby Lake less than 1/4 mile north

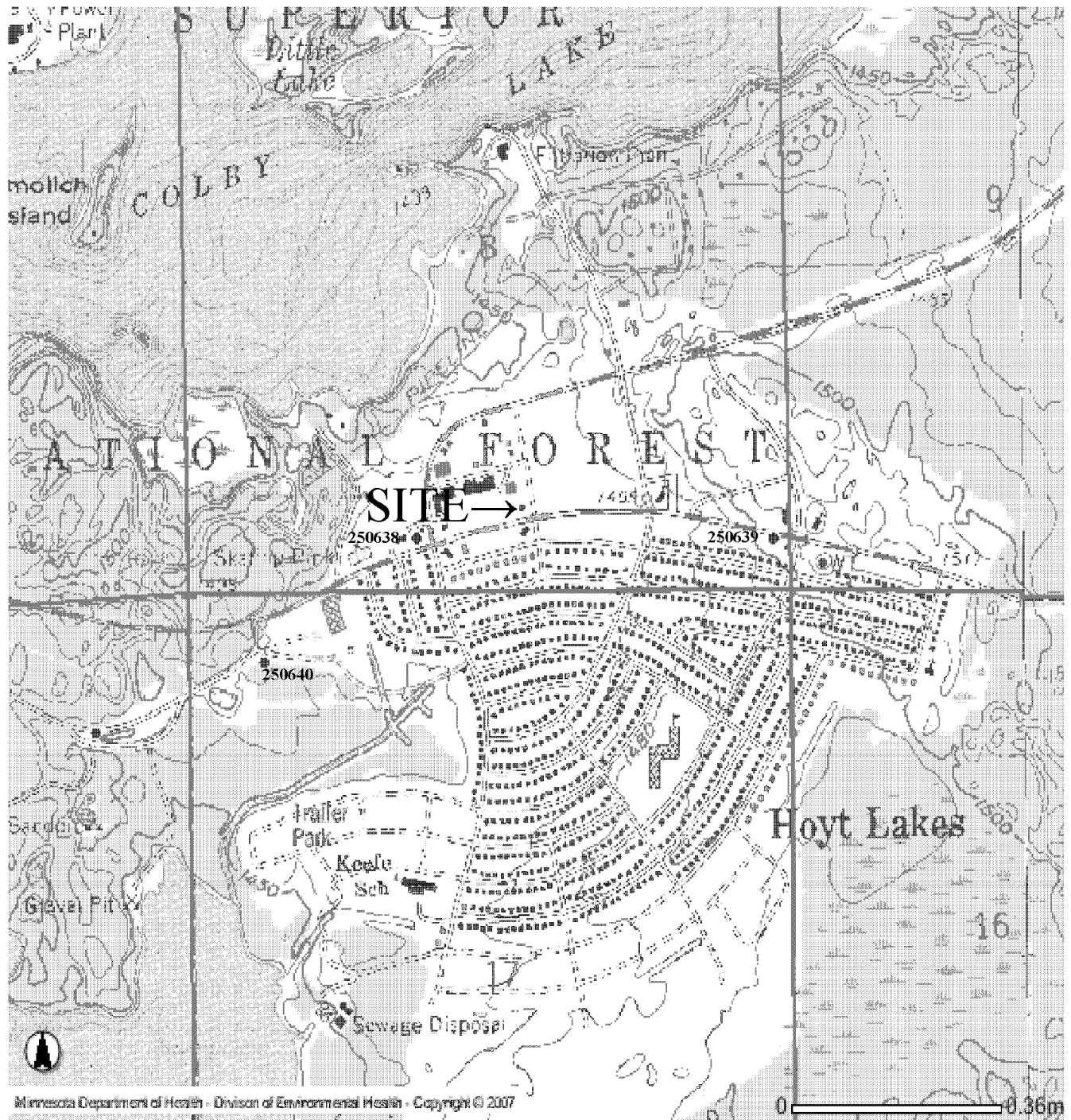
Nearest wetland: Less than 1/4 mile north-northeast

Nearest water well: Less than 1/4 mile west

Nearest Wellhead Protection Area: More than 1 mile

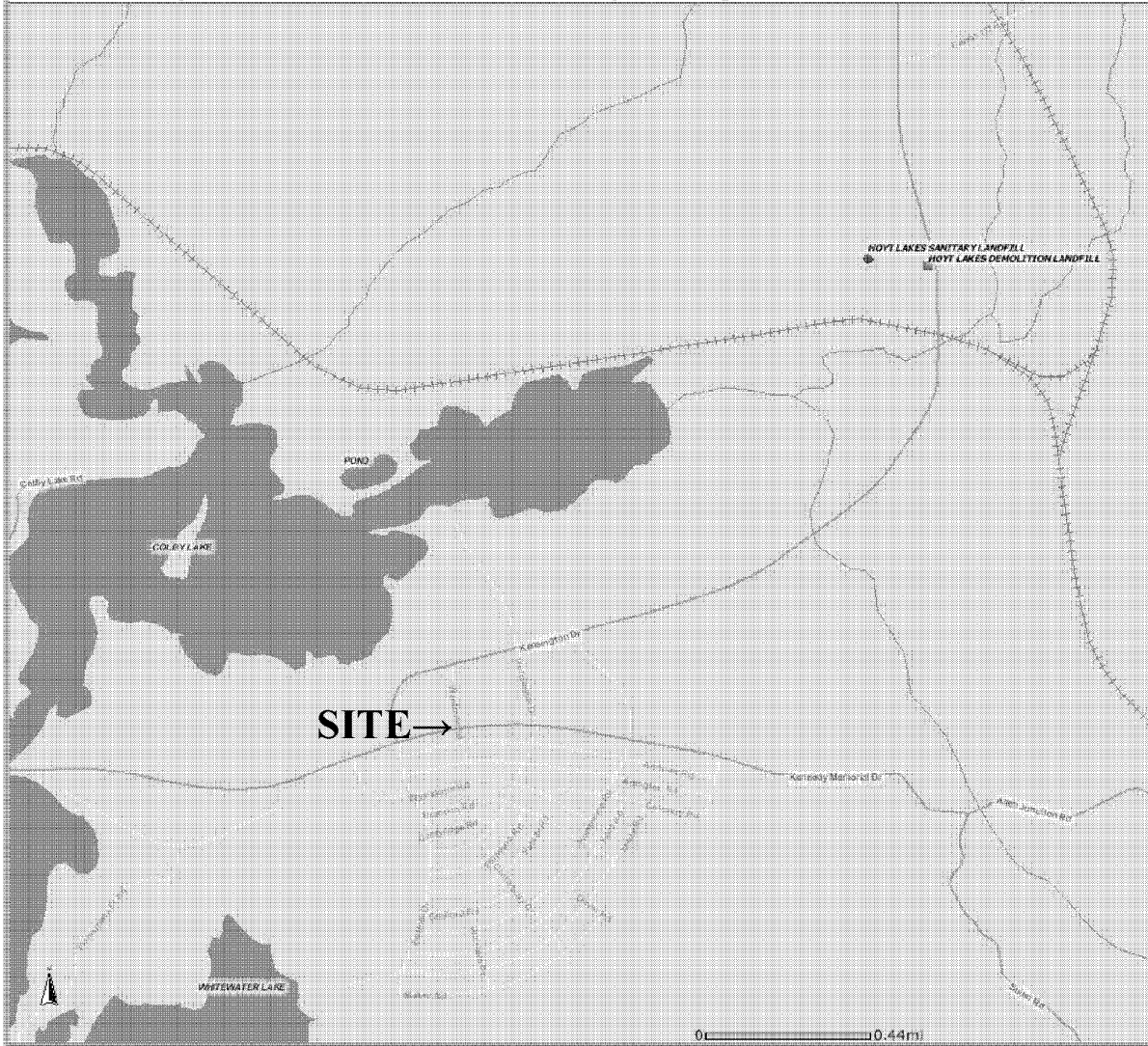
SITE RANKING: 11

HOYT LAKES CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Hoyt Lakes What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- RCRA Investigation & Cleanup
- ▲ State Assessment

Minnesota Unique Well No.

250638

County St. Louis
 Quad Aurora
 Quad ID 318C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/22/1997
 Update Date 04/17/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name 8-P1		Well Depth 38 ft.	Depth Completed 38 ft.	Date Well Completed 07/07/1958
Township Range Dir Section Subsections Elevation 58 14 W 8 CDDBCB		Elevation Method 1463 ft. 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Test well		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
		Open Hole from ft. to ft.		
		Screen	Make	Type
		Diameter	Slot/Gauze	Length Set Between
Geological Material	Color	Hardness	From	To
GRAVELLY CLAY, SILT, SAND			0	5
SANDY TILL	BROWN		5	37
SLATE BEDROCK			37	38
		Static Water Level ft. from Date Measured		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS CUTTINGS AT DNR-IIBBING.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located United States Geological Survey		Method Digitization (Screen) - Map (1:24,000)		
Unique Number		Date 11/21/2005		
Verification Information from owner				
System UTM - Nad83, Zone15, Meters		X: 564200 Y: 5263232		
		Nearest Known Source of Contamination _feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification United States Geological Survey <u>USGS</u> License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		250638		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

250639

County St. Louis
 Quad Aurora
 Quad ID 318C

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/22/1997
 Update Date 11/21/2005
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name 8-R1 Township Range Dir Section Subsections Elevation 1505 ft. 58 14 W 8 DDDADC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 12 ft. Depth Completed 12 ft. Date Well Completed 07/07/1958 Drilling Method</p>
<p>Geological Material SAND & GRAVEL Color Hardness From 0 To 12</p>	<p>Drilling Fluid Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Test well</p>
	<p>Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p>
	<p>Casing Diameter Weight Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen Diameter Slot/Gauze Length Set Between</p>
	<p>Static Water Level ft. from Date Measured</p>
	<p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>REMARKS CUTTINGS AT DNR-HIBBING.</p> <p>Located United States Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 11/21/2005 System UTM - Nad83, Zone15, Meters X: 565183 Y: 5263232</p>	<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>
	<p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Cuttings Yes First Bedrock Last Strat Sand & larger</p>	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Well Contractor Certification United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller</p>
	<p>Aquifer Depth to Bedrock ft.</p>

County Well Index Online Report	250639	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

250640

County St. Louis
 Quad Aurora
 Quad ID 318C

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/22/1997
 Update Date 04/17/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name 17-D1	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	39 ft.	39 ft.	07/08/1958
58 14 W 17 BBBDDA Elevation Method	7.5 minute topographic map (+/- 5 feet)		
Drilling Method --			

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Geological Material</td> <td style="width: 10%;">Color</td> <td style="width: 10%;">Hardness</td> <td style="width: 10%;">From</td> <td style="width: 10%;">To</td> </tr> <tr> <td>ROAD FILL</td> <td></td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>SAND & GRAVEL</td> <td></td> <td></td> <td>2</td> <td>7</td> </tr> <tr> <td>CLAY TILL</td> <td>RED/BRN</td> <td></td> <td>7</td> <td>7</td> </tr> <tr> <td>SAND & GRAVEL</td> <td></td> <td></td> <td>7</td> <td>38</td> </tr> <tr> <td>SLATE?</td> <td></td> <td></td> <td>38</td> <td>39</td> </tr> </table>	Geological Material	Color	Hardness	From	To	ROAD FILL			0	2	SAND & GRAVEL			2	7	CLAY TILL	RED/BRN		7	7	SAND & GRAVEL			7	38	SLATE?			38	39	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
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		Use Test well																																
		Casing Type	Joint	No Information	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
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	Diameter	Slot/Gauze	Length	Set Between																														
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	ft.	from	Date	Measured																														
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	ft.	after	hrs. pumping	g.p.m.																														
	Well Head Completion																																	
	Pitless adapter	manufacturer	Model																															
	<input type="checkbox"/>	Casing Protection	<input type="checkbox"/>	12 in. above grade																														
	<input type="checkbox"/>	At-grade (Environmental Wells and Borings ONLY)																																

REMARKS CUTTINGS AT DNR-HIBBING.	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located United States Geological Survey	Method Digitization (Screen) - Map (1:24,000)
Unique Number	
Verification Information from owner	Date 11/21/2005
System UTM - Nad83, Zone15, Meters	X: 563779 Y: 5262931
	Nearest Known Source of Contamination _feet _direction _type
	Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Pump <input type="checkbox"/> Not Installed Date Installed
	Manufacturer's name Model number ___ HP ___ Volts
	Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material

Cuttings Yes	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
Last Strat	Well Contractor Certification
Aquifer	United States Geological Survey USGS
Depth to Bedrock 38 ft.	License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	250640	Printed 6/27/2008 HE-01205-07
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SITE SUMMARY

Site Name: Hugo

Fire Department: Hugo Fire Department
5323 140th Street N.
Hugo, MN 55038

Site Contact: Ron Gray, Fire Fighter
651-429-6366
hugfd@comcast.net

Training Location: 5223 140th St. N. and 4630 Fable Rd Ct. N., Hugo

Type of foam used in training: AR-AFFF: Angus
Class A: Angus

Foam training frequency: Bi-Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: 10 gallons
Class A: 1 to 2 gallons

Nearest surface water: Intermittent stream less than 1/4 mile east of 140th Street site;
Clearwater Creek 1/4 to 1/2 mile east of Fable Road site.

Nearest wetland: Less than 1/4 mile east of 140th Street site; less than 1/4 mile
west of Fable Road site.

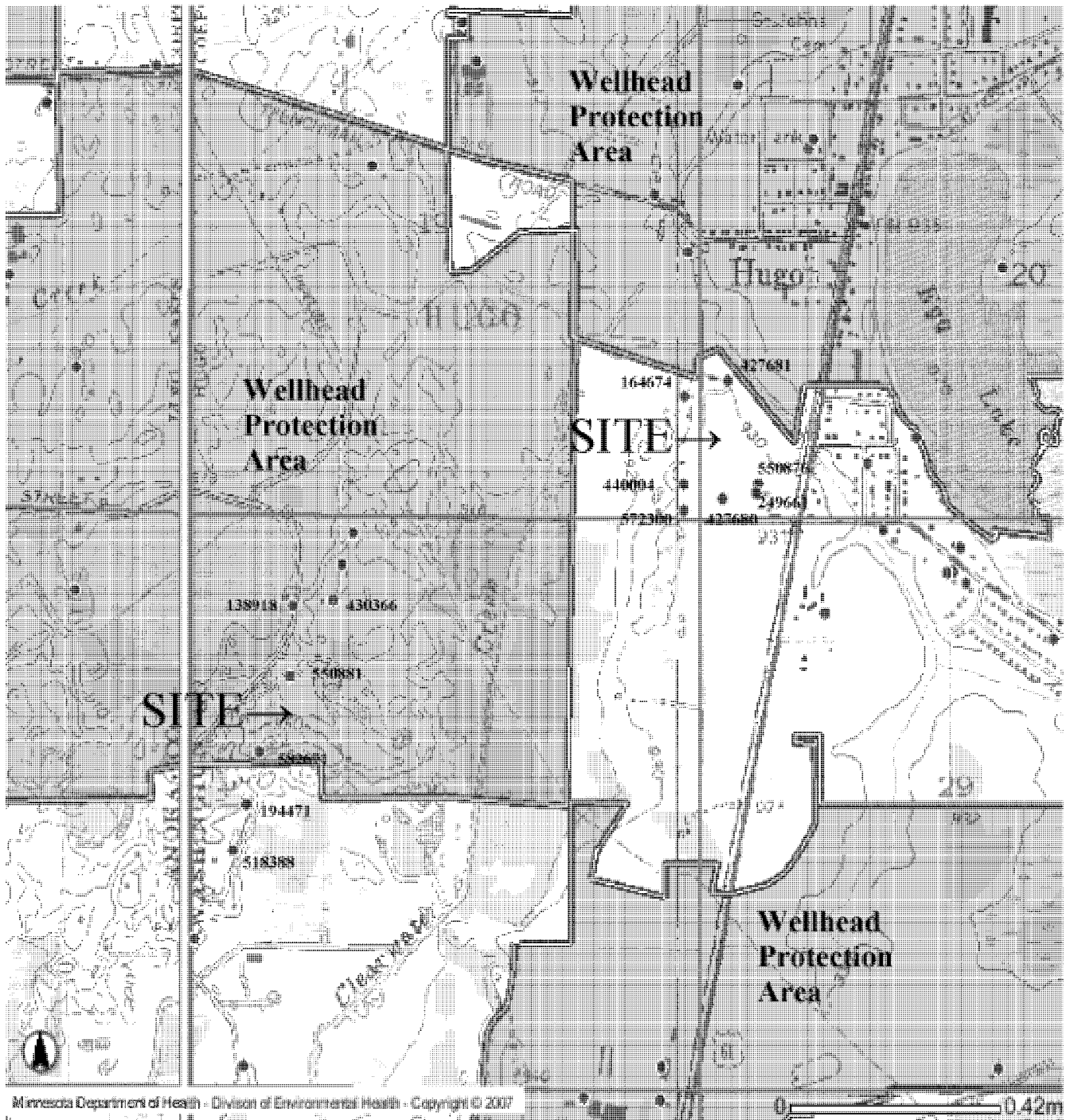
Karst Area: Training site is located in a transition or covered karst area.

Nearest water well: Less than 1/4 mile north and south of both training sites.

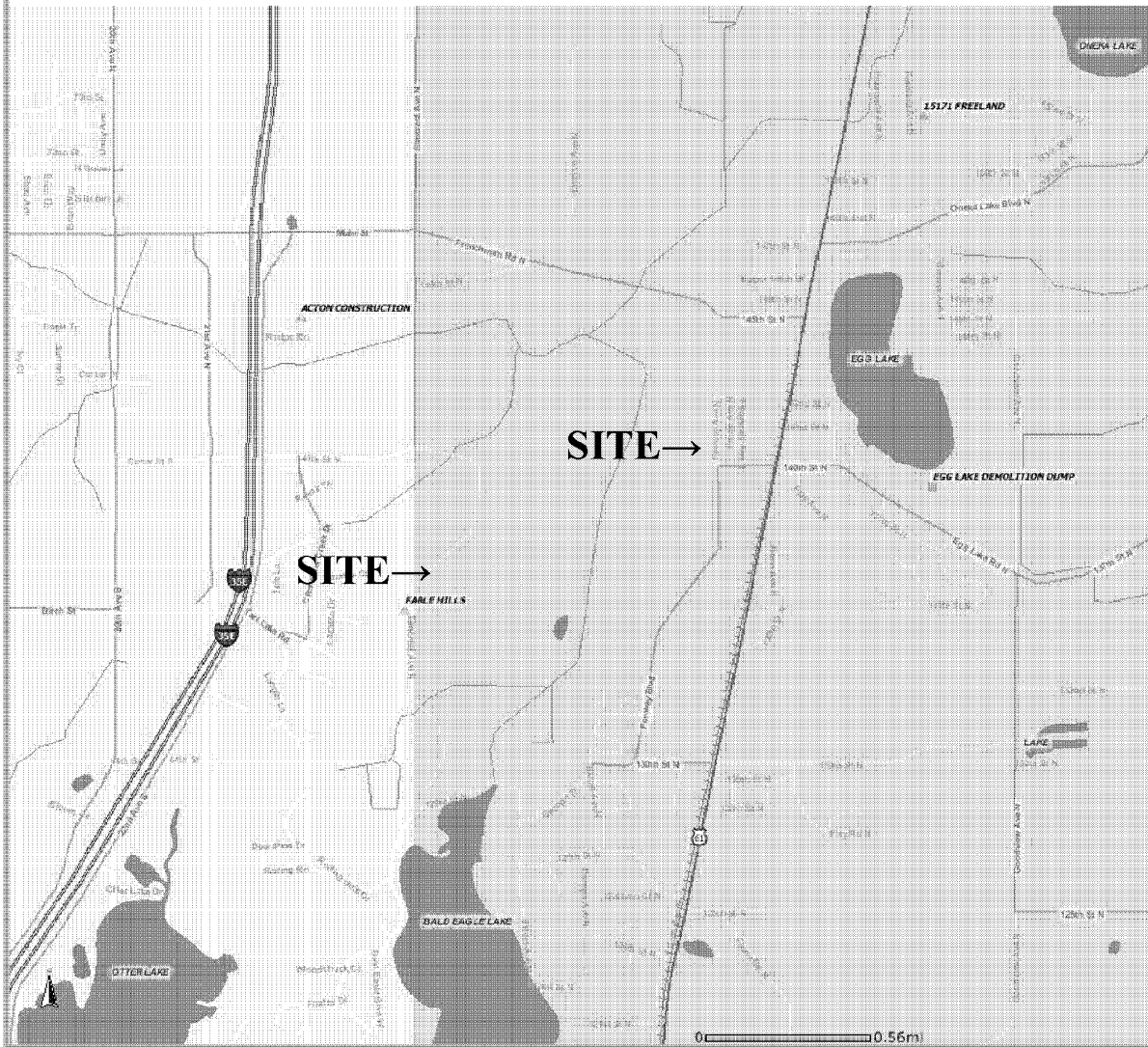
Nearest Wellhead Protection Area: Less than 1/4 mile north of 140th Street site; Fable Road site
located in Wellhead Protection Area.

SITE RANKING: 20

HUGO CWI Well Map



Hugo What's In My Neighborhood Map

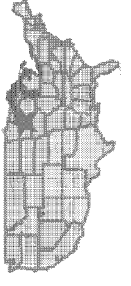
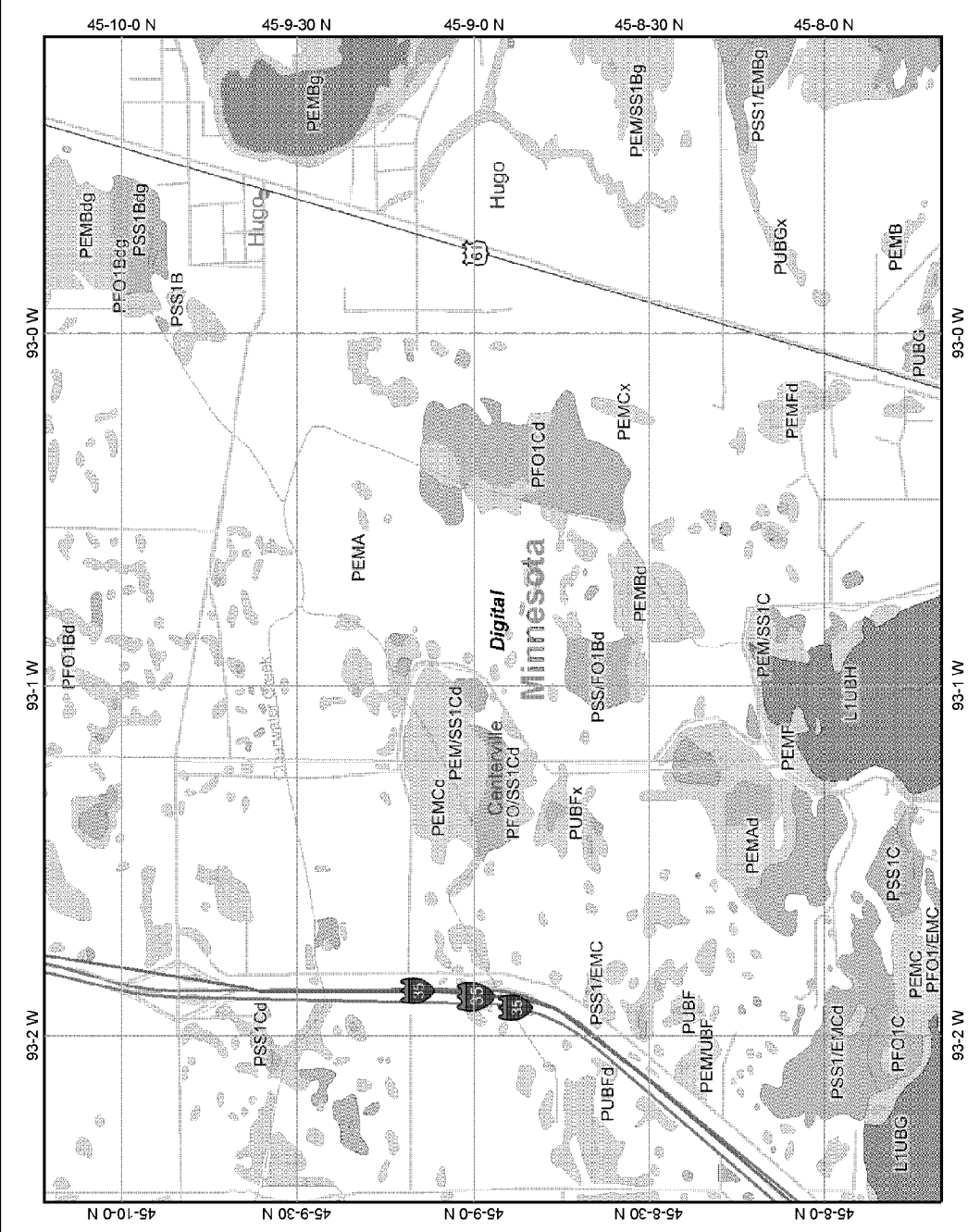


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Hugo Wetland Map



Legend

- Interstate
- Major Road
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:33,043

Map center: 45° 8' 57" N, 93° 0' 49" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

138918

County Washington
 Quad Centerville
 Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/21/1995
 Update Date 05/09/1996
 Received Date

Well Name WALLS, ROBERT Township Range Dir Section Subsections Elevation 921 ft. 31 21 W 30 BBDABD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 72 ft.	Depth Completed 72 ft.	Date Well Completed 03/10/1978
		Drilling Method Cable Tool		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter 4 in. to 64 ft.	Weight lbs/ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
		Diameter 4 4	Slot/Gauze 30 18	Length 4 4
		Set Between 0 ft. and 72 ft. 63 ft. and ft.		
		Static Water Level 5 ft. from Land surface Date Measured 03/10/1978		
		PUMPING LEVEL (below land surface) 14 ft. after hrs. pumping 30 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 03/10/1978 Manufacturer's name JACUZZI Model number 1S4C HP 1 Volts 230 Length of drop Pipe 30 ft. Capacity 25 g.p.m. Type Submersible Material Galvanized		
System UTM - Nad83, Zone15, Meters X: 498753 Y: 4999671		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Salverda Well Co 62006 SALVERDA, W. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand & larger		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Printed 6/27/2008 HE-01205-07
County Well Index Online Report		138918		

Minnesota Unique Well No.

164674

County Washington
 Quad Hugo
 Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 07/06/1989
 Update Date 05/09/1996
 Received Date

Well Name JOHNSON, HARLEY Township Range Dir Section Subsections Elevation 929 ft. 31 21 W 19 DDAAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 84 ft.	Depth Completed 84 ft.	Date Well Completed 06/30/1981
		Drilling Method Cable Tool		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.		
		Casing Diameter 4 in. to 79 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
Geological Material FINE SAND CLAY WITH GRAVEL GRAVEL MUDDY FINE SAND GRAVEL		Color BLU/GRY	Hardness	From To 0 29 29 66 66 68 68 78 78 84
Well Address 14196 FENWAY AV HUGO MN		Diameter Slot/Gauze Length Set Between 4 30 4 79 ft. and 83 ft.		
		Static Water Level 7 ft. from Land surface Date Measured 06/30/1981		
		PUMPING LEVEL (below land surface) 11 ft. after hrs. pumping 25 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 06/30/1981 Manufacturer's name DEMING Model number 4AMN HP 0.75 Volts 230 Length of drop Pipe 42 ft. Capacity 25 g.p.m. Type Submersible Material Galvanized		
System UTM - Nad83, Zone 15, Meters X: 500014 Y: 5000260		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Salverda Well Co. 82006 SALVERDA, W. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Gravel (+larger) Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		County Well Index Online Report		
		164674		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

194471

County Washington
 Quad Centerville
 Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/09/1990
 Update Date 05/09/1996
 Received Date

<p>Well Name LACASSE, DAVE Township Range Dir Section Subsections Elevation 952 ft. 31 21 W 30 CBBAAA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 148 ft. Depth Completed 148 ft. Date Well Completed 08/30/1983 Drilling Method Cable Tool</p>																																																									
<p>Well Address 12487 ELMCREST AV HUGO MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>SANCY CLAY & BOULDERS</td><td>RED</td><td></td><td>0</td><td>45</td></tr> <tr><td>SANDY CLAY & SAND LENSES</td><td>RED</td><td></td><td>45</td><td>60</td></tr> <tr><td>SAND</td><td>BROWN</td><td></td><td>60</td><td>65</td></tr> <tr><td>SANDSTONE</td><td>WHITE</td><td>SOFT</td><td>65</td><td>100</td></tr> <tr><td>SANDSTONE</td><td>WHITE</td><td>HARD</td><td>100</td><td>108</td></tr> <tr><td>SHALE</td><td>BLUE</td><td></td><td>108</td><td>110</td></tr> <tr><td>SANDSTONE</td><td>WHITE</td><td>SOFT</td><td>110</td><td>125</td></tr> <tr><td>SANDSTONE</td><td>YEL/WHT</td><td>SOFT</td><td>125</td><td>130</td></tr> <tr><td>SANDSTONE</td><td>GRAY</td><td>HARD</td><td>130</td><td>148</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SANCY CLAY & BOULDERS	RED		0	45	SANDY CLAY & SAND LENSES	RED		45	60	SAND	BROWN		60	65	SANDSTONE	WHITE	SOFT	65	100	SANDSTONE	WHITE	HARD	100	108	SHALE	BLUE		108	110	SANDSTONE	WHITE	SOFT	110	125	SANDSTONE	YEL/WHT	SOFT	125	130	SANDSTONE	GRAY	HARD	130	148	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <p>Casing Diameter 4 in. to 127 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from 127 ft. to 148 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Screen NO</th> <th style="text-align: left;">Make</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> </tbody> </table> <p>Static Water Level 41 ft. from Land surface Date Measured 08/30/1983</p> <p>PUMPING LEVEL (below land surface) 41 ft. after hrs. pumping 30 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer BAKER Model SNAPPY <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between
	Geological Material	Color	Hardness	From	To																																																					
	SANCY CLAY & BOULDERS	RED		0	45																																																					
	SANDY CLAY & SAND LENSES	RED		45	60																																																					
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	SANDSTONE	WHITE	SOFT	65	100																																																					
	SANDSTONE	WHITE	HARD	100	108																																																					
	SHALE	BLUE		108	110																																																					
	SANDSTONE	WHITE	SOFT	110	125																																																					
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SANDSTONE	GRAY	HARD	130	148																																																						
Screen NO	Make	Type																																																								
Diameter	Slot/Gauze	Length	Set Between																																																							
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 498603 Y: 4999110</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Nearest Known Source of Contamination ___feet ___direction ___type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/10/1983 Manufacturer's name STA RITE Model number ___ HP 0.5 Volts 220 Length of drop Pipe 60 ft. Capacity 10 g.p.m Type Submersible Material Plastic</p>																																																									
<p>First Bedrock St.Peter Aquifer St.Peter Last Strat St.Peter Depth to Bedrock 65 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Barott Drilling 02303 BAROTT, B. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																									
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">194471</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/27/2008 HE-01205-07</p>																																																									

Minnesota Unique Well No.

249661

County Washington
 Quad Hugo
 Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/18/1994
 Update Date 05/06/2005
 Received Date

Well Name LOWELL, BILL Township Range Dir Section Subsections Elevation 931 ft. 31 21 W 20 CCCDAC Elevation Method topographic map (+/- 5 feet)		Well Depth 110 ft. Depth Completed 110 ft. Date Well Completed
Well Address 5444 140TH ST N HUGO MN		Drilling Method -- Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material Color Hardness From To GLACIAL DRIFT 0 100 NO RECORD 100 110		Use Abandoned Status Sealed Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft. Casing Diameter Weight Hole Diameter 4 in. to 100 ft. lbs./ft. Open Hole from 100 ft. to 110 ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 05/28/2004 System UTM - Nad83, Zone15, Meters X: 500244 Y: 4999987		Screen NO Make Type Diameter Slot/Gauze Length Set Between Static Water Level 10 ft. from Land surface Date Measured 05/06/1994 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer SNAPPY Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS DRILLER SAID WELL IS 110 FT. DEEP TV CAMERA SHOWED OPEN HOLE BELOW. GAMMA LOGGED AND TV 5-6-1994. IT IS ESTIMATED THE BEDROCK AT 100 FT. WOULD BE THE PRAIRIE DU CHIEN. WELL SEALED BY 62028 ORIGINAL USE DO - DOMESTIC		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
Borehole Geophysics Yes First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 100 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		249661 Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

427680

County Washington
 Quad Hugo
 Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/09/1990
 Update Date 05/09/1996
 Received Date

Well Name BERNIER, TOM Township Range Dir Section Subsections Elevation 932 ft. 31 21 W 20 CCCAD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 126 ft.	Depth Completed 126 ft.	Date Well Completed 04/17/1987
Drilling Method Non-specified Rotary					Drilling Fluid Bentonite		
Well Address 5326 140TH ST N HUGO MN					Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material					Use Domestic		
SAND CLAY GRAVEL SANDSTONE LIMEROCK					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.		
Color Hardness From To					Casing Diameter Weight Hole Diameter 4 in. to 108 ft. lbs./ft. 4 in. to 126 ft.		
0 15 15 72 72 91 91 101 101 126					Open Hole from 108 ft. to 126 ft.		
Screen NO Make Type					Diameter Slot/Gauze Length Set Between		
Static Water Level 15 ft. from Land surface Date Measured 06/02/1987					PUMPING LEVEL (below land surface) 50 ft. after hrs. pumping 25 g.p.m.		
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PI4IUCI <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
NO REMARKS					Nearest Known Source of Contamination 55 feet South West direction type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Pump <input checked="" type="checkbox"/> Not Installed Date Installed 06/02/1987 Manufacturer's name RED JACKET Model number 50CNW0-CN9BC HP 0.75 Volts Length of drop Pipe 40 ft. Capacity g.p.m. Type Submersible Material Steel (black or low carbon)		
Unique Number Verification Address Date N/A					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 500135 Y: 4999971					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock St.Peter Aquifer Prairie Du Chien Group					Well Contractor Certification Lauren McCullough Well Drilling 82443 MCCULLOUGH, L. License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Prairie Du Chien Group Depth to Bedrock 91 ft.					County Well Index Online Report		
					427680		Printed 6/27/2008 IIE-01205-07

Minnesota Unique Well No.

430366

County Washington
 Quad Centerville
 Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/09/1990
 Update Date 05/09/1996
 Received Date

Well Name LACASSE, CHARLES C.					Well Depth 126 ft.		Depth Completed 126 ft.		Date Well Completed 11/20/1986																					
Township Range Dir Section Subsections Elevation 31 21 W 30 BACBAC 937 ft.					Drilling Method Non-specified Rotary																									
Elevation Method 7.5 minute topographic map (+/- 5 feet)					Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																							
Well Address 13905 ELMCREST AV N WHITE BEAR LAKE MN Geological Material CLAY & SAND SAND SANDROCK ROCK <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>0</td> <td>25</td> </tr> <tr> <td></td> <td></td> <td>25</td> <td>65</td> </tr> <tr> <td></td> <td></td> <td>65</td> <td>105</td> </tr> <tr> <td></td> <td></td> <td>105</td> <td>126</td> </tr> </tbody> </table>					Color	Hardness	From	To			0	25			25	65			65	105			105	126	Use Domestic		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.			
					Color	Hardness	From	To																						
							0	25																						
							25	65																						
							65	105																						
							105	126																						
					Casing Diameter 4 in. to 105 ft.		Weight lbs./ft.		Hole Diameter																					
					Open Hole from 105 ft. to 126 ft.						Screen NO Make Type																			
					Diameter		Slot/Gauze		Length		Set Between																			
					Static Water Level 30 ft. from Land surface Date Measured 11/20/1986						PUMPING LEVEL (below land surface) 100 ft. after hrs. pumping 30 g.p.m.																			
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PL4IUC1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																								
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 498882 Y: 4999685						Nearest Known Source of Contamination _feet _direction _type																								
						Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																								
						Pump <input checked="" type="checkbox"/> Not Installed Date Installed 02/17/1987 Manufacturer's name RED JACKET Model number 50CNI-CN9BC HP 0 Volts 230 Length of drop Pipe 60 ft. Capacity g.p.m Type Submersible Material Plastic																								
First Bedrock St.Peter Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 65 ft.						Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																								
						Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																								
						Well Contractor Certification Lauren McCullough Well Drilling 82443 MCCULLOUGH, L License Business Name Lic. Or Reg. No. Name of Driller																								
County Well Index Online Report					430366		Printed 6/27/2008 HE-01205-07																							

Minnesota Unique Well No.

440004

County Washington
 Quad Hugo
 Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/26/1990
 Update Date 05/09/1996
 Received Date

Well Name KOSTUCK, BRETT					Well Depth 120 ft.		Depth Completed 120 ft.		Date Well Completed 10/19/1987																									
Township Range Dir Section Subsections Elevation 31 21 W 19 DDDACD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Drilling Method Non-specified Rotary																													
Well Address 14134 FENWAY AV N HUGO MN Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>24</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>24</td> <td>78</td> </tr> <tr> <td></td> <td></td> <td>78</td> <td>84</td> </tr> <tr> <td>YELLOW</td> <td>SOFT</td> <td>84</td> <td>93</td> </tr> <tr> <td>YELLOW</td> <td>HARD</td> <td>93</td> <td>120</td> </tr> </tbody> </table>					Color	Hardness	From	To	BROWN	MEDIUM	0	24	GRAY	SOFT	24	78			78	84	YELLOW	SOFT	84	93	YELLOW	HARD	93	120	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
					Color	Hardness	From	To																										
					BROWN	MEDIUM	0	24																										
					GRAY	SOFT	24	78																										
							78	84																										
					YELLOW	SOFT	84	93																										
					YELLOW	HARD	93	120																										
					Use Domestic																													
					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.																													
					Casing Diameter 4 in. to 93 ft.			Weight lbs./ft.		Hole Diameter 4 in. to 120 ft.																								
Open Hole from 93 ft. to 120 ft.																																		
Screen NO Make Type																																		
Diameter		Slot/Gauze		Length		Set Between																												
Static Water Level 10 ft. from Land surface Date Measured 10/19/1987																																		
PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 25 g.p.m.																																		
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PI4IUCI <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																		
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Address verification Date N/A System UTM - Nad83, Zone15, Meters X: 500010 Y: 5000012					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																													
					Nearest Known Source of Contamination 90 feet E direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
					Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/01/1987 Manufacturer's name RED JACKET Model number 75U1-12BC HP 0.75 Volts Length of drop Pipe 40 ft. Capacity g.p.m. Type Submersible Material Plastic																													
					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																													
First Bedrock St.Peter Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 84 ft.					Well Contractor Certification Lauren McCullough Well Drilling 82443 MCCULLOUGH, L License Business Name Lic. Or Reg. No. Name of Driller																													
County Well Index Online Report					440004					Printed 6/27/2008 HF-01205-07																								

Minnesota Unique Well No.

550876

County Washington
 Quad Hugo
 Quad ID 118B

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 06/27/1996
 Update Date 03/11/2005
 Received Date

Well Name LOWELL, BILL Township Range Dir Section Subsections Elevation 31 21 W 20 CCADBC Elevation Method 931 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 111 ft. Depth Completed 111 ft. Date Well Completed 07/07/1994	
Drilling Method Non-specified Rotary			
Drilling Fluid Bentonite		Well Hydrofractured? From Ft. to Ft. <input type="checkbox"/> Yes <input type="checkbox"/> No	
Use Domestic			
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.			
Casing Diameter 4 in. to 102 ft. Hole Diameter 6.75 in. to 102 ft. Weight 11 lbs./ft. Set Between 4 in. to 111 ft.			
Open Hole from 102 ft. to 111 ft.			
Screen NO Make Type			
Diameter		Slot/Gauge Length Set Between	
Static Water Level 12 ft. from Land surface Date Measured 07/07/1994			
PUMPING LEVEL (below land surface) 25 ft. after 1 hrs. pumping 20 g.p.m.			
Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from 10 to 30 ft. bags			
Nearest Known Source of Contamination 50 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material			
Well Address 5444 140TH ST N HUGO MN 55038		Color Hardness From To BROWN SOFT 0 33 GRAY SOFT 33 99 RED/YEL HARD 99 111	
Geological Material SAND CLAY ROCK			
NO REMARKS			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger - Irregular section (Digitizing Table)		Date N/A System UTM - Nad83, Zone 15, Meters X: 500250 Y: 5000013	
Unique Number Verification Tag on well			

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>First Bedrock Prairie Du Chien Group</p>	<p>Aquifer Prairie Du Chien Group</p>
<p>Last Strat Prairie Du Chien Group</p>	<p>Depth to Bedrock 99 ft.</p>
<p>County Well Index Online Report</p>	
<p>550876</p>	<p>Printed 6/27/2008 HE-01205-07</p>

Minnesota Unique Well No.

550881

County Washington
 Quad Centerville
 Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/27/1996
 Update Date 03/11/2005
 Received Date

Well Name THOMPSON, DENNIS Township Range Dir Section Subsections Elevation 938 ft. 31 21 W 30 BCAACB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 64 ft. Depth Completed 64 ft. Date Well Completed 07/20/1994
Well Address 13755 ELMCREST AV HUGO MN 55038		Drilling Method Non-specified Rotary
Geological Material SAND & CLAY GRAVEL		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Color BROWN Hardness SOFT		Use Domestic
From 0 To 50 From 50 To 64		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
		Casing Diameter 4 in. to 64 ft. Weight lbs./ft. Hole Diameter 8 in. to 30 ft. 6 in. to 64 ft.
		Open Hole from ft. to ft.
		Screen YES Make Type slotted pipe
		Diameter 4 Slot/Gauze 10 Length 10 Set Between 54 ft. and 64 ft.
		Static Water Level 30 ft. from Land surface Date Measured 07/20/1994
		PUMPING LEVEL (below land surface) 36 ft. after 1 hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 10 to 30 ft. 7 bags Grout Material: Bentonite from to ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Tag on well Date 05/28/2004 System UTM - Nad83, Zone15, X: 498743 Y: 4999471 Meters		Nearest Known Source of Contamination 75 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
First Bedrock Last Strat Gravel (+larger)-brown		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Zuercher Well Co. 62028 ZUERCHER, A. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		550881 Printed 6/27/2008 HF-01205-07

Minnesota Unique Well No.

572300

County Washington
 Quad Hugo
 Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/31/1997
 Update Date 01/31/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name SWENSON, JACK		Well Depth 84 ft.	Depth Completed 84 ft.	Date Well Completed 08/28/1996	
Township Range Dir Section Subsections Elevation 31 21 W 19 DDDCCA Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary			
Well Address 14104 FENWAY AV N HUGO MN 55038 Geological Material Color Hardness From To MEDIUM SAND BROWN SOFT 0 22 CLAY BROWN HARD 22 60 COARSE SAND BROWN SOFT 60 84		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint Glued Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.			
		Casing Diameter 4 in. to 74 ft.	Weight 2.13 lbs./ft.	Hole Diameter 6 in. to 84 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make MONOFLEX Type slotted pipe			
		Diameter 4	Slot/Gauze 12	Length 10	Set Between 74 ft. and 84 ft.
		Static Water Level 15 ft. from Land surface Date Measured 08/28/1996			
		PUMPING LEVEL (below land surface) 25 ft. after 2 hrs. pumping 40 g.p.m.			
		Well Head Completion Pitless adapter manufacturer BAKER Model SNAPPY <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS Located Minnesota Department of Health Method GPS SA On (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 500010 Y: 4999938		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from to 30 ft. 1 bags			
		Nearest Known Source of Contamination 80 feet North West direction Septic tank/drain field_type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
First Bedrock Aquifer Quat. Buried Artes. Aquifer		Well Contractor Certification <u>Martin Lake Garage</u> <u>02633</u> <u>HAGLE, R.</u> License Business Name Lic. Or Reg. No. Name of Driller			
Last Strat Sand-brown Depth to Bedrock ft.					
County Well Index Online Report		572300		Printed 6/27/2008 HE-01205-07	

Minnesota Unique Well No.

582671

County Washington
 Quad Centerville
 Quad ID 119A

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I**

Entry Date 09/26/1996
 Update Date 09/15/1997
 Received Date

Well Name GRAFF, TOM	Well Depth 201 ft.	Depth Completed 201 ft.	Date Well Completed 05/22/1996
Township Range Dir Section Subsections Elevation 31 21 W 30 BCDBCA	Elevation Method 960 ft. 7.5 minute topographic map (+/- 5 feet)	Drilling Method Non-specified Rotary	
Well Address 13615 ELMCREST AV N HUGO MN 55038			
Geological Material CLAY GRAVEL CLAY SHALE ROCK			
Color	Hardness	From	To
		0	45
		45	70
		70	109
		109	201
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PL410 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Static Water Level 60 ft. from Land surface Date Measured 05/22/1996			
PUMPING LEVEL (below land surface) 80 ft. after hrs. pumping 30 g.p.m.			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 6 to 36 ft. 2 bags			
Nearest Known Source of Contamination 65 feet South East direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<i>NO REMARKS</i>			

<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed <u>05/23/1996</u> Manufacturer's name <u>STA-RITE</u> Model number <u>I0SP4CO2J-02</u> HP <u>0.5</u> Volts Length of drop Pipe <u> </u> ft. Capacity <u> </u> g.p.m. Type <u>Submersible</u> Material <u> </u></p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Well Contractor Certification Lauren McCullough Well Drilling 82443 OTTEN, D. License Business Name Lic. Or Reg. No. Name of Driller</p>
<p>First Bedrock St. Peter-Prairie Du Chien Last Strat St. Peter-Prairie Du Chien Aquifer Multiple Depth to Bedrock 109 ft.</p>	<p>582671</p>
<p>County Well Index Online Report</p>	
<p>Printed 6/27/2008 HE-01205-07</p>	

SITE SUMMARY

Site Name: Hutchinson

Fire Department: Hutchinson Fire Department
205 3rd Ave. SE
Hutchinson, MN 55350

Site Contact: James Popp, Battalion Chief
320-234-5653
jpopp@ci.hutchinson.mn.us

Training Location: 205 3rd Av. SE and 1300 Adams St. SE, Hutchinson

Type of foam used in training: AFFF: 3M Light Water, historic use
AR-AFFF: 3M Light Water, historic use
Class A: Ansul Silv-ex, current use

Foam training frequency: Quarterly

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AFFF: less than 10 gallons, historic use
AR-AFFF: less than 10 gallons, historic use
Class A: 10 gallons, current use

Nearest surface water: Crow River approximately 1/2 mile northeast of 3rd Avenue site;
unidentified pond less than 1/4 mile west of Adams Street site.

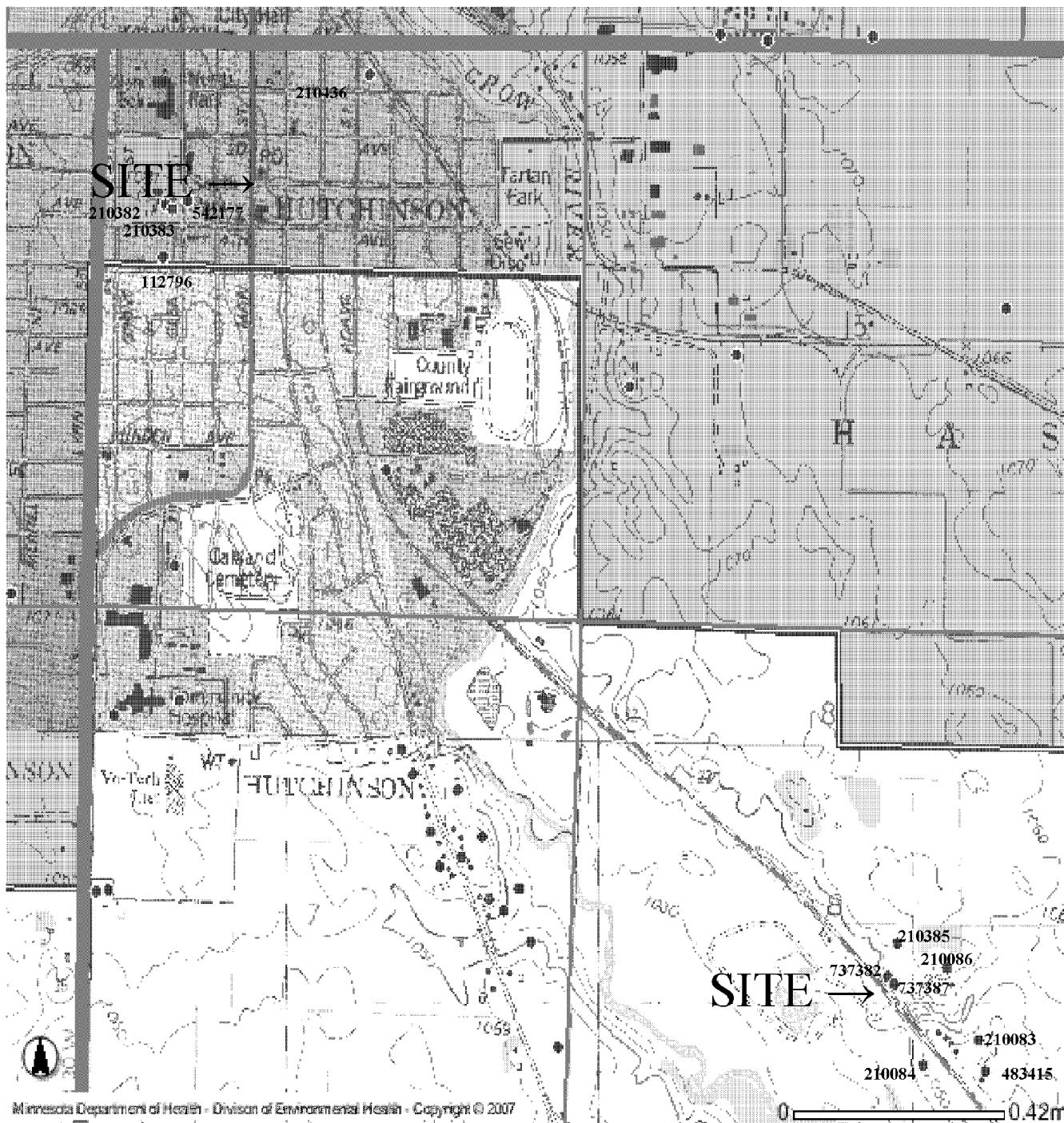
Nearest wetland: Approximately 1/2 mile northeast of 3rd Avenue site; 1/4 to 1/2
mile southwest of Adams Street site.

Nearest water well: Less than 1/4 mile southwest of 3rd Avenue site; less than 1/4
mile east of Adams Street site.

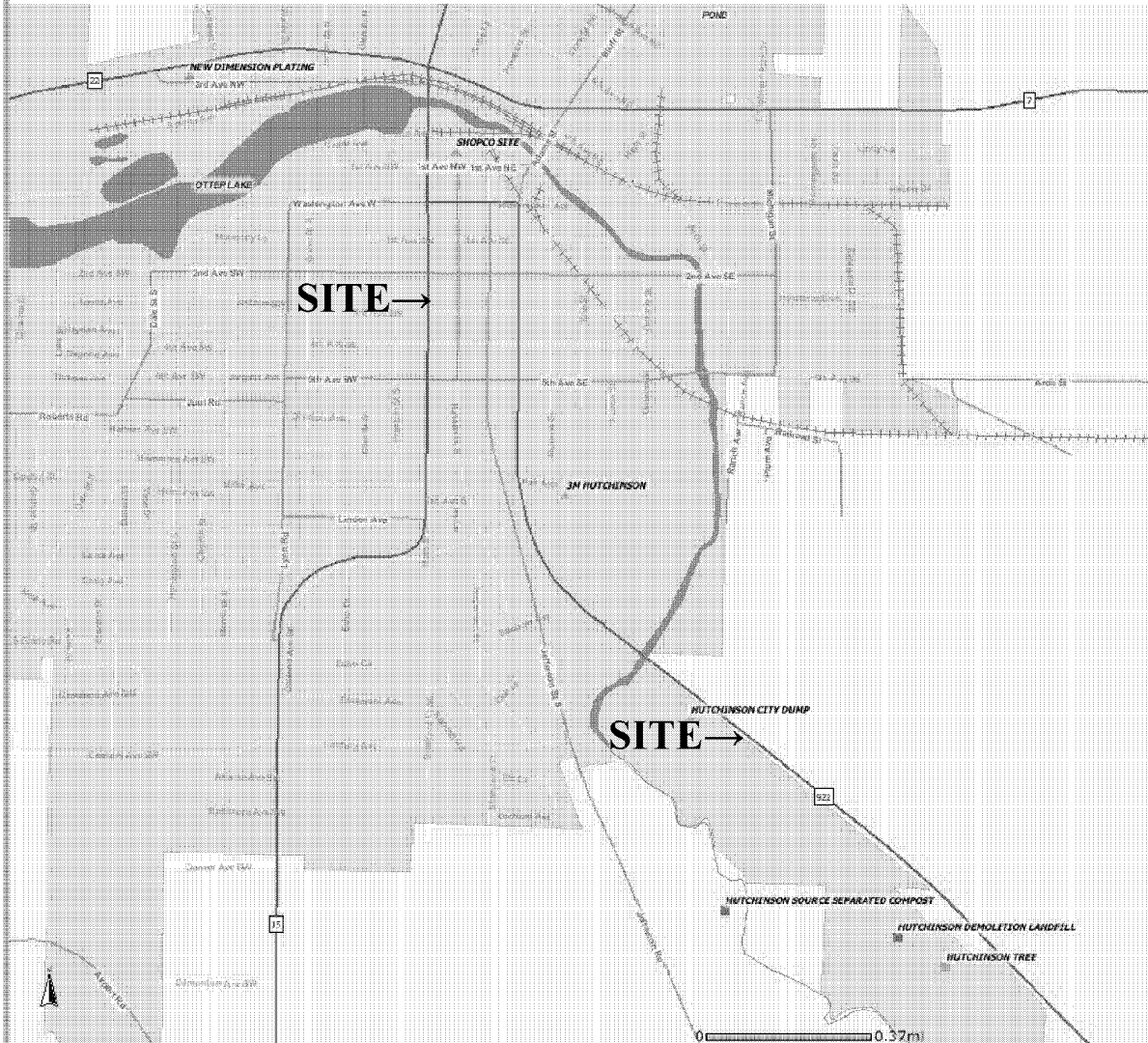
Nearest Wellhead Protection Area: 3rd Avenue site located in Wellhead Protection area; 1/4 to 1/3
mile north of Adams Street site.

SITE RANKING: 26

HUTCHINSON CWI Well Map



Hutchinson What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

112796

County McLeod
 Quad Hutchinson East
 Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/06/2006
 Received Date

Well Name BETKER, MARK Township Range Dir Section Subsections Elevation 1070 ft. 116 29 W 6 BCDBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 114 ft. Depth Completed 114 ft. Date Well Completed 11/13/1975
		Drilling Method Non-specified Rotary
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Domestic
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.
		Casing Diameter 4 in. to 111 ft. Weight 11 lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen YES Make JOINSON 304 Type stainless steel
Geological Material SOIL BLACK CLAY YELLOW HARD CLAY GRAY SOFT SAND BROWN		Diameter 4 Slot/Gauze 12 Length 35 Set Between 111 ft. and 114 ft.
		Static Water Level 28 ft. from Land surface Date Measured 11/13/1975
		PUMPING LEVEL (below land surface) 100 ft. after 3 hrs. pumping 10 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 50 ft. 0.33 yds. Grout Material: Cuttings from to ft.
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 391594 Y: 4971301		Nearest Known Source of Contamination 50 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 12/26/1975 Manufacturer's name FLINT & WALLING Model number 5BA8 HP 0.5 Volts 230 Length of drop Pipe 100 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.		Well Contractor Certification Heil Well Co. 43085 HIEL, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		112796 Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

210083

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/06/2006
 Received Date

<p>Well Name PESSEK, HENRY Township Range Dir Section Subsections Elevation 1065 ft. 116 29 W 8 DADCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 99 ft. Depth Completed 99 ft. Date Well Completed 12/01/1956</p> <p>Drilling Method --</p>																																												
<p>Well Address RR 2 HUTCHINSON MN 55350</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td></td> <td>0</td> <td>3</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td></td> <td>3</td> <td>20</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>20</td> <td>80</td> </tr> <tr> <td>SAND CLAY</td> <td></td> <td></td> <td>80</td> <td>96</td> </tr> <tr> <td>SAND</td> <td></td> <td></td> <td>96</td> <td>99</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	3	CLAY	YELLOW		3	20	CLAY	BLUE		20	80	SAND CLAY			80	96	SAND			96	99	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 96 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>50</td> <td>3</td> <td>96 ft. and 99 ft.</td> </tr> </tbody> </table> <p>Static Water Level 36 ft. from Land surface Date Measured 12/01/1956</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer RED JACKET Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 96 ft.	lbs./ft.		Diameter	Slot/Gauze	Length	Set Between	4	50	3	96 ft. and 99 ft.
	Geological Material	Color	Hardness	From	To																																								
	TOP SOIL	BLACK		0	3																																								
	CLAY	YELLOW		3	20																																								
	CLAY	BLUE		20	80																																								
	SAND CLAY			80	96																																								
	SAND			96	99																																								
	Casing Diameter	Weight	Hole Diameter																																										
	4 in. to 96 ft.	lbs./ft.																																											
	Diameter	Slot/Gauze	Length	Set Between																																									
4	50	3	96 ft. and 99 ft.																																										
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - NAD83, Zone15, Meters X: 394197 Y: 4969111</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																												
	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																												
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 12/01/1956 Manufacturer's name MYERS Model number SA50A4 HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity _g.p.m. Type Submersible Material Galvanized</p>																																												
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																												
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.</p>	<p>Well Contractor Certification Fredericksons Inc. 43099 SYVERTSON, R. License Business Name Lic. Or Reg. No. Name of Driller</p>																																												
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">210083</p> <p style="text-align: right;">Printed 6/27/2008 HE-01205-07</p>																																												

Minnesota Unique Well No.

210084

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 01/06/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name OLIVA, WAYNE		Well Depth 187 ft.	Depth Completed 187 ft.	Date Well Completed 09/28/1962		
Township Range Dir Section Subsections Elevation 1050 ft.		Drilling Method --				
116 29 W 8 DACCCD Elevation Method topographic map (+/- 5 feet)						
Well Address RR 2 HUTCHINSON MN 55350 Geological Material Color Hardness From To TOP SOIL BLACK 0 1 CLAY YELLOW 1 23 CLAY STICKY BLUE 23 80 CLAY LENSED WITH SAND BLUE 80 110 CLAY BLUE 110 178 SAND VARIED 178 187 CLAY BLUE 187 187		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Use Domestic				
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
		Casing Diameter 5.5 in. to 184 ft.		Weight lbs./ft.	Hole Diameter	
		Open Hole from ft. to ft.				
		Screen YES Make JOHNSON Type stainless steel				
		Diameter 4		Slot/Gauze 25	Length 3	Set Between 184 ft. and 187 ft.
		Static Water Level ft. from Date Measured				
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
		Well Head Completion Pitless adapter manufacturer DUPLEX Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 394019 Y: 4969041		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/18/1962 Manufacturer's name BERKELEY Model number S-5 HP 0.5 Volts 115 Length of drop Pipe 30 ft. Capacity g.p.m Type Jet Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Clay-gray Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Well Contractor Certification Fredericks Inc. 43099 PULKRABEK, C. License Business Name Lic. Or Reg. No. Name of Driller				
		County Well Index Online Report 210084 Printed 6/27/2008 HE-01205-07				

Minnesota Unique Well No.

210086

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/06/2006
 Received Date

Well Name TAYLOR, EARL Township Range Dir Section Subsections Elevation 1070 ft. 116 29 W 8 DABDBB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 185 ft. Depth Completed 185 ft. Date Well Completed 08/12/1957
Well Address RR 2 HUTCHINSON MN 55350		Drilling Method -- Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material Color Hardness From To CLAY FILL YELLOW 0 15 CLAY YELLOW 15 30 CLAY BLUE 30 97 CLAY GRAY 97 110 SAND GRAY 110 112 CLAY (SANDY) GRAY 112 176 SAND GRAY 176 185		Use Domestic Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft. Casing Diameter 4 in. to 182 ft. Weight lbs./ft. Hole Diameter Open Hole from ft. to ft. Screen YES Make JOHNSON Type stainless steel Diameter 4 Slot/Gauze 35 Length 3 Set Between 0 ft. and ft.
NO REMARKS		Static Water Level 21 ft. from Land surface Date Measured 08/12/1957 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 394095 Y: 4969313		Well Head Completion Pitless adapter manufacturer RED JACKET Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/22/1970 Manufacturer's name G Model number 4AM15 HP 0.75 Volts 230 Length of drop Pipe 36 ft. Capacity g.p.m Type Submersible Material
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Fredericksons Inc. 43099 MAYER, B. License Business Name Lic. Or Reg. No. Name of Driller
210086		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

210382

County McLeod
 Quad Hutchinson East
 Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/05/2006
 Received Date

<p>Well Name CITY OF HUTCHINSON Township Range Dir Section Subsections Elevation 1080 ft. 116 29 W 6 BCABDB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 370 ft. Depth Completed 370 ft. Date Well Completed</p> <p>Drilling Method --</p>																																																																																
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>SANDY CLAY</td><td></td><td></td><td>0</td><td>8</td></tr> <tr><td>CLAY</td><td></td><td>HARD</td><td>8</td><td>65</td></tr> <tr><td>CLAY GRAVEL</td><td></td><td></td><td>65</td><td>78</td></tr> <tr><td>HARDPAN</td><td></td><td></td><td>78</td><td>100</td></tr> <tr><td>CLAY</td><td></td><td></td><td>100</td><td>116</td></tr> <tr><td>HARDPAN</td><td></td><td></td><td>116</td><td>175</td></tr> <tr><td>SANDY CLAY</td><td></td><td></td><td>175</td><td>200</td></tr> <tr><td>HARDPAN</td><td></td><td></td><td>200</td><td>227</td></tr> <tr><td>CLAY BOULDERS</td><td></td><td></td><td>227</td><td>238</td></tr> <tr><td>HARDPAN</td><td></td><td></td><td>238</td><td>254</td></tr> <tr><td>MUDDY SAND</td><td></td><td></td><td>254</td><td>284</td></tr> <tr><td>FINE SAND</td><td></td><td></td><td>284</td><td>320</td></tr> <tr><td>SAND</td><td></td><td></td><td>320</td><td>335</td></tr> <tr><td>SAND GRAVEL</td><td></td><td></td><td>335</td><td>345</td></tr> <tr><td>SAND</td><td></td><td></td><td>345</td><td>370</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SANDY CLAY			0	8	CLAY		HARD	8	65	CLAY GRAVEL			65	78	HARDPAN			78	100	CLAY			100	116	HARDPAN			116	175	SANDY CLAY			175	200	HARDPAN			200	227	CLAY BOULDERS			227	238	HARDPAN			238	254	MUDDY SAND			254	284	FINE SAND			284	320	SAND			320	335	SAND GRAVEL			335	345	SAND			345	370	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Abandoned Status Inactive</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <p>Casing Diameter 12 in. to 320 ft. Weight lbs.ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make LAYNE EVERDUR Type</p> <p>Diameter 8 Slot/Gauze 40 Length 320 ft. and 360 ft. Set Between</p> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
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<p>REMARKS SCREEN TYPE: "SHUTTER SCREEN." USED 8" (PLAIN) EVERDUR PIPE BELOW SCREEN. ORIGINALLY DRILLED TO 390', THEN BACKFILLED TO 370' AND GRAVEL-PACKED TO TOP OF SCREEN WITH 7 YDS. OF FILLER GRAVEL. CASING COMPLETED ABOVE GRADE.</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from 0 to 254 ft.</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>																																																																																
<p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 391603 Y: 4971446</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																																
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.</p>	<p>County Well Index Online Report 210382 Printed 6/27/2008 IIE-01205-07</p>																																																																																

Minnesota Unique Well No.

210383

County McLeod
 Quad Hutchinson East
 Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/05/2006
 Received Date

<p>Well Name HUTCHINSON 2 Township Range Dir Section Subsections Elevation 1075 ft. 116 29 W 6 BCABDC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 392 ft. Depth Completed 265 ft. Date Well Completed 08/00/1954 Drilling Method Cable Tool</p>																																																																													
<p>Well Address 300 GLEN ST S HUTCHINSON MN 55350</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>TOPSOIL</td><td>BLACK</td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td>2</td><td>25</td></tr> <tr><td>CLAY & PEBBLES</td><td>BLUE</td><td>25</td><td>195</td></tr> <tr><td>CLAY & COARSE GRAVEL</td><td>BLUE</td><td>195</td><td>203</td></tr> <tr><td>CLAY & PEBBLES</td><td>GRAY</td><td>203</td><td>227</td></tr> <tr><td>SAND & GRAVEL</td><td>GREEN</td><td>227</td><td>257</td></tr> <tr><td>LENS OF SAND & GRAVEL</td><td>GRN/GRY</td><td>257</td><td>265</td></tr> <tr><td>CLAY PLASTIC</td><td>GRN/RED</td><td>265</td><td>272</td></tr> <tr><td>SAND & GRAVEL</td><td>GRN/GRY</td><td>272</td><td>291</td></tr> <tr><td>CLAY & GRAVEL</td><td>GRAY</td><td>291</td><td>298</td></tr> <tr><td>FINE SAND</td><td>GRAY</td><td>298</td><td>322</td></tr> <tr><td>SAND & GRAVEL</td><td>GRAY</td><td>322</td><td>362</td></tr> <tr><td>FINE SAND</td><td>GRAY</td><td>362</td><td>392</td></tr> </tbody> </table>	Color	Hardness	From	To	TOPSOIL	BLACK	0	2	CLAY	YELLOW	2	25	CLAY & PEBBLES	BLUE	25	195	CLAY & COARSE GRAVEL	BLUE	195	203	CLAY & PEBBLES	GRAY	203	227	SAND & GRAVEL	GREEN	227	257	LENS OF SAND & GRAVEL	GRN/GRY	257	265	CLAY PLASTIC	GRN/RED	265	272	SAND & GRAVEL	GRN/GRY	272	291	CLAY & GRAVEL	GRAY	291	298	FINE SAND	GRAY	298	322	SAND & GRAVEL	GRAY	322	362	FINE SAND	GRAY	362	392	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Abandoned Status Inactive</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>12 in. to ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Screen YES</th> <th style="text-align: left;">Make</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> </tr> <tr> <td>12</td> <td>25</td> <td>ft. and ft.</td> </tr> <tr> <td>12</td> <td>30</td> <td>ft. and ft.</td> </tr> <tr> <td>12</td> <td>40</td> <td>ft. and ft.</td> </tr> </tbody> </table> <p>Static Water Level 33 ft. from Land surface Date Measured 08/00/1954</p> <p>PUMPING LEVEL (below land surface) 81.41 ft. after 16 hrs. pumping 1000 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	12 in. to ft.	lbs./ft.		Screen YES	Make	Type	Diameter	Slot/Gauze	Length	12	25	ft. and ft.	12	30	ft. and ft.	12	40	ft. and ft.
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<p>REMARKS NOTE ON LOCATION FROM DNR WELL LOG: SOUTH PARK, S-1/2 OF CITY. CONSTRUCTION. METHOD: DRILLED (DETAILS UNSPECIFIED). ORIGINAL LOG FROM FREDERICKSON'S WELL. CO. SHOWS WELL WAS ORIGINALLY DRILLED TO 392'; APPARENTLY BACKFILLED TO 261'.</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																																																													
<p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information Date 08/02/2005 System UTM - Nad83, Zone15, Meters X: 391624 Y: 4971434</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Fredrickson's 08317 License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																													
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>County Well Index Online Report 210383 Printed 6/27/2008 HE-01205-07</p>																																																																													

Minnesota Unique Well No.

210385

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/10/2006
 Received Date

Well Name KOSECK, HERB Township Range Dir Section Subsections Elevation 1085 ft. 116 29 W 8 DBAABA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 130 ft.	Depth Completed 130 ft.	Date Well Completed 08/31/1961
		Drilling Method Cable Tool		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter 3 in. to 127 ft.	Weight lbs.ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen Make Type		
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level 29 ft. from Land surface Date Measured 08/31/1961		
		PUMPING LEVEL (below land surface) 39 ft. after 2 hrs. pumping 25 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 393936 Y: 4969382		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0.75 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Jet Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Heil Well Co. 43085 HEIL, C. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		210385		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

210436

County McLeod
 Quad Hutchinson East
 Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 01/05/2006
 Received Date

Well Name JENSEN, ALVIN Township Range Dir Section Subsections Elevation 1045 ft. 116 29 W 6 ABBBDA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 112 ft.	Depth Completed 112 ft.	Date Well Completed 07/10/1967	
Drilling Method Cable Tool					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/>			
Well Address 7 SH HUTCHINSON MN 55350					Yes <input type="checkbox"/> No Above/Below 0 ft.			
Geological Material					Casing Diameter 3 in. to 109 ft.	Weight lbs./ft.	Hole Diameter	
FILL CLAY CLAY MEDIUM GRADE SAND	Color YELLOW BLUE	Hardness 0 3 25 107	From 0 3 25 107	To 3 25 107 112	Open Hole from ft. to ft.			
Screen YES Make Type					Diameter 3	Slot/Gauze 16	Length 3	Set Between 109 ft. and 112 ft.
Static Water Level 26 ft. from Land surface Date Measured 07/10/1967					PUMPING LEVEL (below land surface) 36 ft. after 1 hrs. pumping 35 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
NO REMARKS					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 392254 Y: 4971811					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report					Well Contractor Certification <u>Heil Well Co.</u> <u>43085</u> <u>HEIL, C.</u> License Business Name Lic. Or Reg. No. Name of Driller			
					210436		Printed 6/27/2008 HE-01205-07	

Minnesota Unique Well No.

483415

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/10/1993
 Update Date 01/10/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name ANDERSON, ROBERT		Well Depth 199 ft.	Depth Completed 198 ft.	Date Well Completed 05/15/1992																																																																						
Township Range Dir Section Subsections Elevation 116 29 W 8 DDBABB Elevation Method topographic map (1/- 5 feet)		Drilling Method Non-specified Rotary																																																																								
Well Address 1545 22 SH S HUTCHINSON MN 55350 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BROWN</td><td></td><td>0</td><td>5</td></tr> <tr><td>SANDY CLAY</td><td>YELLOW</td><td></td><td>5</td><td>17</td></tr> <tr><td>CLAY W/GRAVEL</td><td>YELLOW</td><td></td><td>17</td><td>23</td></tr> <tr><td>SANDY CLAY W/GRAVEL</td><td>GRAY</td><td></td><td>23</td><td>27</td></tr> <tr><td>SANDY CLAY W/STONES</td><td>GRAY</td><td></td><td>27</td><td>37</td></tr> <tr><td>ROCK</td><td>VARIED</td><td></td><td>37</td><td>38</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>38</td><td>75</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>75</td><td>82</td></tr> <tr><td>SAND</td><td>VARIED</td><td></td><td>82</td><td>87</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>87</td><td>118</td></tr> <tr><td>DIRTY SAND</td><td>GRAY</td><td></td><td>118</td><td>120</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>120</td><td>188</td></tr> <tr><td>SAND</td><td>GRAY</td><td></td><td>188</td><td>199</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	TOP SOIL	BROWN		0	5	SANDY CLAY	YELLOW		5	17	CLAY W/GRAVEL	YELLOW		17	23	SANDY CLAY W/GRAVEL	GRAY		23	27	SANDY CLAY W/STONES	GRAY		27	37	ROCK	VARIED		37	38	SANDY CLAY	GRAY		38	75	SANDY CLAY	GRAY		75	82	SAND	VARIED		82	87	SANDY CLAY	GRAY		87	118	DIRTY SAND	GRAY		118	120	SANDY CLAY	GRAY		120	188	SAND	GRAY		188	199	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
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		ROCK	VARIED		37	38																																																																				
		SANDY CLAY	GRAY		38	75																																																																				
		SANDY CLAY	GRAY		75	82																																																																				
SAND	VARIED		82	87																																																																						
SANDY CLAY	GRAY		87	118																																																																						
DIRTY SAND	GRAY		118	120																																																																						
SANDY CLAY	GRAY		120	188																																																																						
SAND	GRAY		188	199																																																																						
Use Domestic		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																																																																								
		Casing Diameter 4 in. to 194 ft.	Weight lbs./ft.	Hole Diameter 8.75 in. to 198 ft.																																																																						
		Open Hole from ft. to ft.																																																																								
		Screen YES	Make JOHNSON	Type stainless steel																																																																						
		Diameter 4	Slot/Gauze 18	Length 4																																																																						
		Set Between 194 ft. and 198 ft.																																																																								
		Static Water Level 32 ft. from Land surface Date Measured 05/15/1992																																																																								
		PUMPING LEVEL (below land surface) 42 ft. after hrs. pumping 100 g.p.m.																																																																								
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																								
<p style="text-align:center">NO REMARKS</p> Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Date 08/03/2005 Verification Information from owner System UTM - Nad83, Zone15, Meters X: 394217 Y: 4969024		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 7 to 30 ft.																																																																								
		Nearest Known Source of Contamination 50 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material																																																																								
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																								
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
First Bedrock		Well Contractor Certification <u>Ltp Enterprises</u> <u>91353</u> <u>NELSON, D.</u> License Business Name Lic. Or Reg. No. Name of Driller																																																																								
Last Strat Sand-gray		Depth to Bedrock ft.																																																																								
County Well Index Online Report		483415		Printed 6/27/2008 HE-01205-07																																																																						

Minnesota Unique Well No.

542177

County McLeod
 Quad Hutchinson East
 Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/19/1995
 Update Date 01/10/2006
 Received Date

Well Name PRINCE OF PEACE SR. APARTMENTS Township Range Dir Section Subsections Elevation 1072 ft. 116 29 W 6 BCABAD Elevation Method topographic map (+/- 5 feet)		Well Depth 26 ft. Depth Completed 26 ft. Date Well Completed 10/28/1994
		Drilling Method Cable Tool
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Elevator
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
		Casing Diameter 16 in. to 26 ft. Weight 62.58 lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen Make Type
		Diameter Slot/Gauze Length Set Between
Well Address 301 GLEN ST HUTCHINSON MN 55350		
Geological Material SAND FINE CLAY	Color BROWN YELLOW	Hardness SOFT
	From 0 12	To 12 26
		Static Water Level ft. from Date Measured
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from 24 to 26 ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 08/08/2005 System UTM - Nad83, Zone15, Meters X: 391674 Y: 4971459		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Don Graves Drilling L0005 License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Clay-yellow		Aquifer Depth to Bedrock ft.
County Well Index Online Report		542177
		Printed 6/27/2008 HF-01205-07

Minnesota Unique Well No.

737387

County McLeod
 Quad Biscay
 Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/29/2007
 Update Date 10/05/2007
 Received Date 01/23/2007

Well Name RATII RACING Township Range Dir Section Subsections Elevation 1061 ft. 116 29 W 8 DBACCB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 181 ft. Depth Completed 176 ft. Date Well Completed 09/25/2006 Drilling Method Non-specified Rotary																																													
Well Address ADAMS ST SE HUTCHINSON MN <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>SANDY CLAY</td><td>BROWN</td><td></td><td>0</td><td>11</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>11</td><td>56</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td></td><td>56</td><td>68</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>68</td><td>100</td></tr> <tr><td>SAND</td><td>GRAY</td><td></td><td>100</td><td>102</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>102</td><td>171</td></tr> <tr><td>SAND</td><td>GRAY</td><td></td><td>171</td><td>177</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>177</td><td>181</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	SANDY CLAY	BROWN		0	11	SANDY CLAY	GRAY		11	56	SANDY CLAY	BROWN		56	68	SANDY CLAY	GRAY		68	100	SAND	GRAY		100	102	SANDY CLAY	GRAY		102	171	SAND	GRAY		171	177	SANDY CLAY	GRAY		177	181	Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Geological Material	Color	Hardness	From	To																																									
		SANDY CLAY	BROWN		0	11																																									
		SANDY CLAY	GRAY		11	56																																									
		SANDY CLAY	BROWN		56	68																																									
		SANDY CLAY	GRAY		68	100																																									
		SAND	GRAY		100	102																																									
		SANDY CLAY	GRAY		102	171																																									
		SAND	GRAY		171	177																																									
		SANDY CLAY	GRAY		177	181																																									
Use Domestic																																															
Casing Type Plastic Joint Glued Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																															
Casing Diameter 4 in. to 172 ft. Weight lbs./ft. Hole Diameter 6.25 in. to 181 ft.																																															
Open Hole from ft. to ft.																																															
Screen YES Make JOHNSON Type stainless steel																																															
Diameter 4 Slot/Gauze 18 Length 4 Set Between 172 ft. and 176 ft.																																															
Static Water Level 20 ft. from Land surface Date Measured 09/25/2006																																															
PUMPING LEVEL (below land surface) 46 ft. after hrs. pumping 50 g.p.m.																																															
Well Head Completion Pitless adapter manufacturer MONITOR Model 6PS45BS4 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																															
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 6 to 95 ft. 3 bags																																													
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Name on mailbox Date 07/16/2007 System UTM - Nad83, Zone15, Meters X: 393927 Y: 4969269		Nearest Known Source of Contamination 60 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed 08/29/2006 Manufacturer's name AERMOTOR Model number 12-50 HP 0.5 Volts 115 Length of drop Pipe 63 ft. Capacity 12 g.p.m. Type Submersible Material																																													
First Bedrock Last Strat Clay & sand-gray Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																													
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																													
		Well Contractor Certification LTP Enterprises, Inc. 2157 GRIMM, G. License Business Name Lic. Or Reg. No. Name of Driller																																													
County Well Index Online Report		737387 Printed 6/27/2008 HE-01205-07																																													

SITE SUMMARY

Site Name: Linwood

Fire Department: Linwood Fire Department
22817 Typo Creek Drive NE
Stacy, MN 55079

Site Contact: Jim Stockinger, Fire Captain
612-868-1924

Training Location: Behind station, 22870 Typo Creek Drive, Stacy

Type of foam used in training: AFFF: 3M Light Water ATC
AR-AFFF: 3M Light Water ATC

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 5 to 10 gallons
AR-AFFF: 5 to 10 gallons
Class A: 20 to 25 gallons

Nearest surface water: Unidentified pond less than 1/4 mile southwest

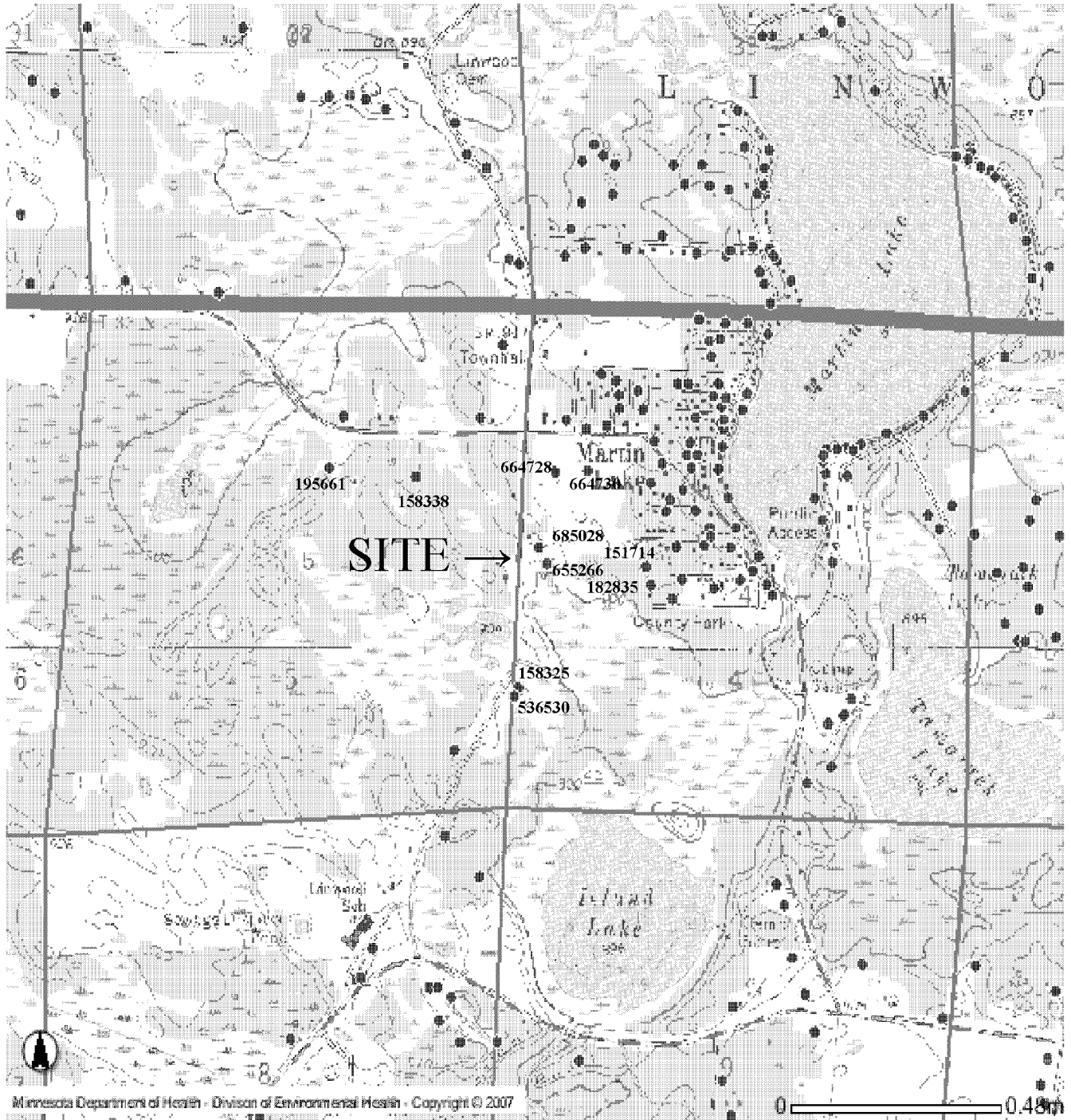
Nearest wetland: Less than 1/4 mile southeast and southwest

Nearest water well: Less than 1/4 mile east

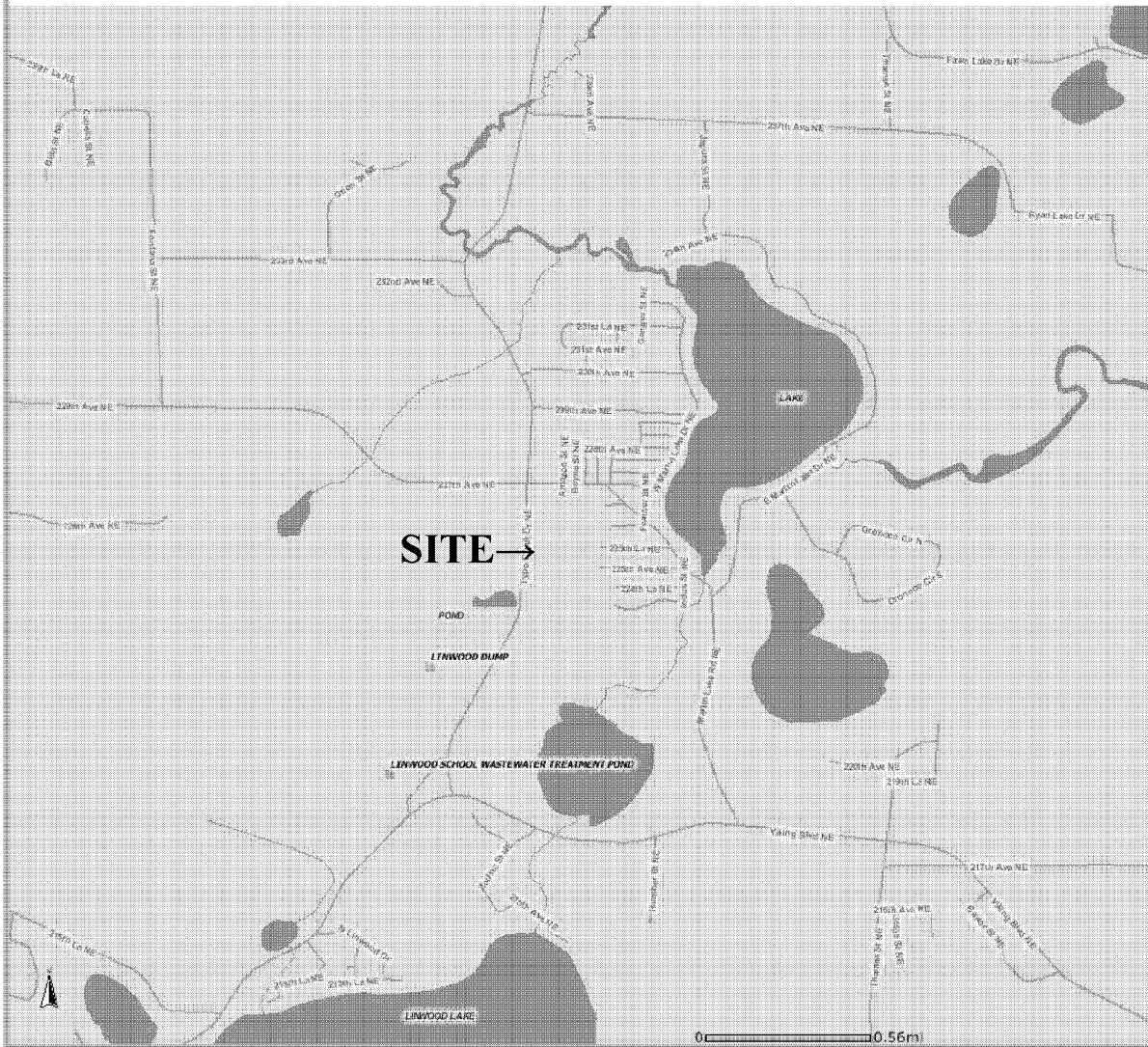
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 21

LINWOOD TOWNSHIP CWI Well Map



Linwood What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

151714

County Anoka
 Quad Typo Lake
 Quad ID 135A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/15/1991
 Update Date 07/04/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name ROBERT KENDAL					Well Depth 128 ft.		Depth Completed 128 ft.		Date Well Completed 10/27/1978																																					
Township Range Dir Section Subsections Elevation 33 22 W 4 CABBBA					Elevation 911 ft.																																									
Elevation Method topographic map (+/- 5 feet)					Drilling Method --																																									
<table border="0" style="width:100%;"> <tr> <td style="width:20%;">Geological Material</td> <td style="width:10%;">Color</td> <td style="width:10%;">Hardness</td> <td style="width:10%;">From</td> <td style="width:10%;">To</td> <td></td> </tr> <tr> <td>FINE SAND</td> <td></td> <td></td> <td>0</td> <td>48</td> <td></td> </tr> <tr> <td>FINE SAND & CLAY</td> <td>BLUE</td> <td></td> <td>48</td> <td>65</td> <td></td> </tr> <tr> <td>CLAY</td> <td>RED</td> <td></td> <td>65</td> <td>110</td> <td></td> </tr> <tr> <td>CLAY & GRAVEL</td> <td></td> <td></td> <td>110</td> <td>122</td> <td></td> </tr> <tr> <td>SAND & GRAVEL</td> <td></td> <td></td> <td>122</td> <td>128</td> <td></td> </tr> </table>					Geological Material	Color	Hardness	From	To		FINE SAND			0	48		FINE SAND & CLAY	BLUE		48	65		CLAY	RED		65	110		CLAY & GRAVEL			110	122		SAND & GRAVEL			122	128		Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
					Geological Material	Color	Hardness	From	To																																					
					FINE SAND			0	48																																					
					FINE SAND & CLAY	BLUE		48	65																																					
					CLAY	RED		65	110																																					
					CLAY & GRAVEL			110	122																																					
					SAND & GRAVEL			122	128																																					
					Use Domestic																																									
					Casing Type Joint		No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
									Above/Below 0 ft.																																					
Casing Diameter 4 in. to 124 ft.		Weight lbs./ft.		Hole Diameter																																										
Open Hole from ft. to ft.																																														
Screen YES		Make JOHNSON		Type stainless steel																																										
Diameter 4		Slot/Gauze 80		Length 4																																										
				Set Between 124 ft. and 128 ft.																																										
Static Water Level 17 ft. from Land surface		Date Measured 10/27/1978																																												
PUMPING LEVEL (below land surface)		ft. after hrs. pumping		g.p.m.																																										
Well Head Completion		Pitless adapter manufacturer		Model																																										
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade																																												
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																														
<p style="text-align:center">NO REMARKS</p> <p>Located Minnesota Geological Survey</p> <p>Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number</p> <p>Verification Address verification</p> <p>Date N/A</p> <p>System UTM - Nad83, Zone15, Meters</p> <p>X: 492566 Y: 5024869</p>					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																									
					Nearest Known Source of Contamination		_feet _direction _type																																							
					Well disinfected upon completion?		<input type="checkbox"/> Yes <input type="checkbox"/> No																																							
					Pump <input checked="" type="checkbox"/> Not Installed		Date Installed																																							
					Manufacturer's name MCDONALD		Model number L78																																							
HP 0.5 Volts		Length of drop Pipe 42 ft.		Capacity g.p.m.																																										
Type Submersible		Material																																												
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input type="checkbox"/> Yes <input type="checkbox"/> No																																												
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input type="checkbox"/> No																																												
Well Contractor Certification		Jolinson Bros. Well		62114																																										
First Bedrock		Aquifer Quat. Buried Artes. Aquifer		License Business Name																																										
Last Strat Sand		Depth to Bedrock ft.		Lic. Or Reg. No. Name of Driller																																										

County Well Index Online Report	151714	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

158325

County Anoka
 Quad Typo Lake
 Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/15/1991
 Update Date 08/08/2002
 Received Date

Well Name OSTLUND Township Range Dir Section Subsections Elevation 910 ft. 33 22 W 4 CBCBBD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 200 ft. Depth Completed 200 ft. Date Well Completed 05/23/1986																																	
		Drilling Method Non-specified Rotary																																	
Well Address 22343 TYPO CREEK DR Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BROWN</td><td>SOFT</td><td>0</td><td>10</td></tr> <tr><td>BLUE</td><td>SOFT</td><td>10</td><td>40</td></tr> <tr><td>BLUE</td><td>SOFT</td><td>40</td><td>60</td></tr> <tr><td>RED</td><td>SOFT</td><td>60</td><td>80</td></tr> <tr><td>RED</td><td>MEDIUM</td><td>80</td><td>105</td></tr> <tr><td>BROWN</td><td>HARD</td><td>105</td><td>125</td></tr> <tr><td>YELLOW</td><td>HARD</td><td>125</td><td>200</td></tr> </tbody> </table>		Color	Hardness	From	To	BROWN	SOFT	0	10	BLUE	SOFT	10	40	BLUE	SOFT	40	60	RED	SOFT	60	80	RED	MEDIUM	80	105	BROWN	HARD	105	125	YELLOW	HARD	125	200	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Color	Hardness	From	To																														
		BROWN	SOFT	0	10																														
		BLUE	SOFT	10	40																														
		BLUE	SOFT	40	60																														
		RED	SOFT	60	80																														
		RED	MEDIUM	80	105																														
		BROWN	HARD	105	125																														
		YELLOW	HARD	125	200																														
		Use Domestic																																	
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/>																																			
Yes <input type="checkbox"/> No Above/Below 1.8 ft.																																			
Casing Diameter 4 in. to 132 ft. Weight 11 lbs./ft. Hole Diameter 6 in. to 132 ft. 4 in. to 200 ft.																																			
Open Hole from 132 ft. to 200 ft.																																			
Screen NO Make Type																																			
Diameter Slot/Gauze Length Set Between																																			
Static Water Level 15 ft. from Land surface Date Measured 05/23/1986																																			
PUMPING LEVEL (below land surface) 50 ft. after 2 hrs. pumping 50 g.p.m.																																			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																			
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																	
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination 50 feet South East direction Septic tank/drain field type																																	
Unique Number Date 04/30/2001		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																	
Verification Information from owner		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/27/1986 Manufacturer's name MYERS Model number SJ52-J511 HP 0.5 Volts 115 Length of drop Pipe 42 ft. Capacity 12 g.p.m. Type Submersible Material Galvanized																																	
System UTM - Nad83, Zone15, Meters X: 492100 Y: 5024483		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																	
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																	
First Bedrock Franconia Aquifer Franconia		Well Contractor Certification Torgerson, Art & Son 02203 TORGERSON, S. License Business Name Lic. Or Reg. No. Name of Driller																																	
Last Strat Franconia Depth to Bedrock 125 ft.																																			
County Well Index Online Report		158325																																	
		Printed 6/27/2008 HE-01205-07																																	

Minnesota Unique Well No.

158338

County Anoka
 Quad Typo Lake
 Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/15/1991
 Update Date 07/04/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name STEVE ERICKSON		Well Depth	Depth Completed	Date Well Completed		
Township Range Dir Section Subsections Elevation		70 ft.	70 ft.	07/22/1986		
33	22 W 5 ADBCBC	Elevation Method topographic map (+/- 5 feet)				
Well Address 6430 227TH AV NE MN Geological Material Color Hardness From To SAND BROWN SOFT 0 10 WATER SAND BROWN SOFT 10 30 SAND BLUE SOFT 30 45 CLAY BLUE HARD 45 52 WATER SAND BROWN 52 70		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		--	From Ft. to Ft.			
		Use Domestic				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		No Above/Below 0 ft.				
		Casing Diameter		Weight	Hole Diameter	
		4 in. to 65 ft.		lbs./ft.		
		Open Hole from ft. to ft.				
		Screen YES Make JOHNSON Type stainless steel				
		Diameter		Slot/Gauze	Length	Set Between
2		10	4	65 ft. and 70 ft.		
Static Water Level						
10 ft. from Land surface Date Measured 07/22/1986						
PUMPING LEVEL (below land surface)						
30 ft. after hrs. pumping 20 g.p.m.						
Well Head Completion						
Pitless adapter manufacturer Model						
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
6430 - 222TH AVE. NE.						
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)				
Unique Number Verification N/A		Date N/A				
System UTM - Nad83, Zone15, Meters		X: 491727 Y: 5025156				
		Nearest Known Source of Contamination				
		100 feet S direction Septic tank/drain field type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed				
		Manufacturer's name MYERS Model number SJ52-J511P				
		HP 0.5 Volts 230				
		Length of drop Pipe 21 ft. Capacity 12 g.p.m				
		Type Submersible Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)?				
		<input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes				
		<input type="checkbox"/> No				
		Well Contractor Certification				
		Torgerson, Art & Son 02203				
		License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock		Aquifer Quat. Water Table Aquifer				
Last Strat Sand-brown		Depth to Bedrock ft.				
County Well Index Online Report		158338		Printed 6/27/2008 HE-01205-07		

Minnesota Unique Well No.

182835

County Anoka
 Quad Typo Lake
 Quad ID 135A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/15/1991
 Update Date 07/04/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name TOM MORRIS				Well Depth 61 ft.		Depth Completed 61 ft.		Date Well Completed 05/21/1982		
Township Range Dir Section Subsections Elevation 33 22 W 4 CABACB Elevation Method topographic map (+/- 5 feet)				912 ft. 7.5 minute						
				Drilling Method --						
				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.				
				Use Domestic						
				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.						
				Casing Diameter 4 in. to 60 ft.		Weight lbs./ft.		Hole Diameter		
				Open Hole from ft. to ft.						
				Screen YES Make JOHNSON 236 Type						
				Diameter 2.5		Slot/Gauze 18		Length 6		Set Between 55 ft. and 61 ft.
Geological Material				Color		Hardness		From To		
SAND								0 37		
CLAY								37 52		
WATERSAND								52 61		
				Static Water Level 22 ft. from Land surface Date Measured 05/21/1982						
				PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 15 g.p.m.						
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS 6838 - 225TH AVE. NE. BICKS SHADYLAND BEACH BLK 8 LOT 8. SOUTH 0.5 SECT.				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Located Minnesota Geological Survey				Method Digitized - scale 1:24,000 or larger (Digitizing Table)						
Unique Number Verification N/A				Date N/A						
System UTM - Nad83, Zone15, Meters				X: 492583 Y: 5024810						
				Nearest Known Source of Contamination 55 feet direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe 40 ft. Capacity 15 g.p.m. Type Submersible Material						
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Well Contractor Certification <u>Mccullough & Sons</u> 82054 License Business Name Lic. Or Reg. No. Name of Driller						
First Bedrock				Aquifer Quat. Buried Artes. Aquifer						
Last Strat Sand				Depth to Bedrock ft.						

County Well Index Online Report	182835	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

195661

County Anoka
 Quad Typo Lake
 Quad ID 135A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/15/1991
 Update Date 07/04/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name ROBERT STAUMM		Well Depth 64 ft.	Depth Completed 64 ft.	Date Well Completed 09/22/1983																				
Township Range Dir Section Subsections Elevation 33 22 W 5 ACBCAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SAND</td> <td></td> <td></td> <td>0</td> <td>48</td> </tr> <tr> <td>CLAY</td> <td></td> <td></td> <td>48</td> <td>51</td> </tr> <tr> <td>WATER SAND</td> <td>RED</td> <td></td> <td>51</td> <td>64</td> </tr> </table>		Geological Material	Color	Hardness	From	To	SAND			0	48	CLAY			48	51	WATER SAND	RED		51	64	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																		
		SAND			0	48																		
		CLAY			48	51																		
		WATER SAND	RED		51	64																		
		Use Domestic																						
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																						
		Casing Diameter 4 in. to 62 ft.		Weight lbs./ft.	Hole Diameter																			
		Open Hole from ft. to ft.																						
		Screen YES Make JOHNSON 236 Type stainless steel																						
Diameter 2.5		Slot/Gauze 18	Length 6	Set Between 58 ft. and 64 ft.																				
Static Water Level 13 ft. from Land surface Date Measured 09/22/1983																								
PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 15 g.p.m.																								
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																								
REMARKS 6256 - 227TH AVE., STACY		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)																						
Unique Number Verification N/A		Date N/A																						
System UTM - Nad83, Zone 15, Meters		X: 491411 Y: 5025184																						
		Nearest Known Source of Contamination 100 feet direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name RED JACKET Model number BVC751 HP 0.75 Volts 230 Length of drop Pipe 40 ft. Capacity 15 g.p.m. Type Submersible Material																						
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Well Contractor Certification McCullough & Sons 82054 License Business Name Lic. Or Reg. No. Name of Driller																						
First Bedrock		Aquifer Quat. Water Table Aquifer																						
Last Strat Sand-red		Depth to Bedrock ft.																						

County Well Index Online Report	195661	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

536530

County Anoka
 Quad Linwood
 Quad ID 135D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 08/11/1994
 Update Date 02/04/2004
 Received Date

Well Name OSTLUND, HAROLD & MARLYS Township Range Dir Section Subsections Elevation 909 ft. 33 22 W 4 CCBBBC Elevation Method topographic map (+/- 5 feet)				Well Depth 175 ft.	Depth Completed 175 ft.	Date Well Completed 06/15/1994	
Drilling Method Non-specified Rotary				Drilling Fluid Bentonite			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Well Address 22261 TYPO CREEK DR NE WYOMING MN 55092				Use Domestic			
Geological Material				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
FINE SAND CLAY FINE SAND RED CLAY, GRAVEL, ROCKS SANDSTONE SANDSTONE				Casing Diameter 4 in. to 131 ft. Weight 10.79 lbs./ft. Hole Diameter 6.75 in. to 131 ft. 4 in. to 175 ft.			
Color BLUE RED BRN/BLK YEL/WHT				Open Hole from 131 ft. to 175 ft.			
Hardness				Screen NO Make Type			
From To 0 36 36 41 41 69 69 123 123 144 144 175				Diameter Slot/Gauze Length Set Between			
Static Water Level 10 ft. from Land surface Date Measured 06/15/1994				PUMPING LEVEL (below land surface) ft. after 2 hrs. pumping 40 g.p.m.			
Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 30 ft.			
NO REMARKS				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Located Method Digitization (Screen) - Map (1:24,000)				Pump <input type="checkbox"/> Not Installed Date Installed 06/16/1994 Manufacturer's name STA-RITE Model number __ HP 1 Volts Length of drop Pipe 42 ft. Capacity 20 g.p.m Type Submersible Material			
Unique Number Verification Information from owner Date N/A				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
System UTM - Nad83, Zone15, Meters X: 492085 Y: 5024456				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Franconia Aquifer Franconia				Well Contractor Certification Johnson G. Well Co. 13539 KRINGLE, M. License Business Name Lic. Or Reg. No. Name of Driller			
Last Strat Franconia Depth to Bedrock 123 ft.				County Well Index Online Report			
				536530		Printed 6/27/2008 HF-01205-07	

SITE SUMMARY

Site Name: Lismore

Fire Department: Lismore Fire Department
PO Box 188
Lismore, MN 56155

Site Contact: James Weidert
507-920-7208
jkweidert@myclearwave.net

Training Location: Barn fire, Birkett & 170th St.

Type of foam used in training: Not specified, 3M foam use assumed

Foam training frequency: One to two times per year

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified

Nearest surface water: Intermittent stream less than 1/4 mile west

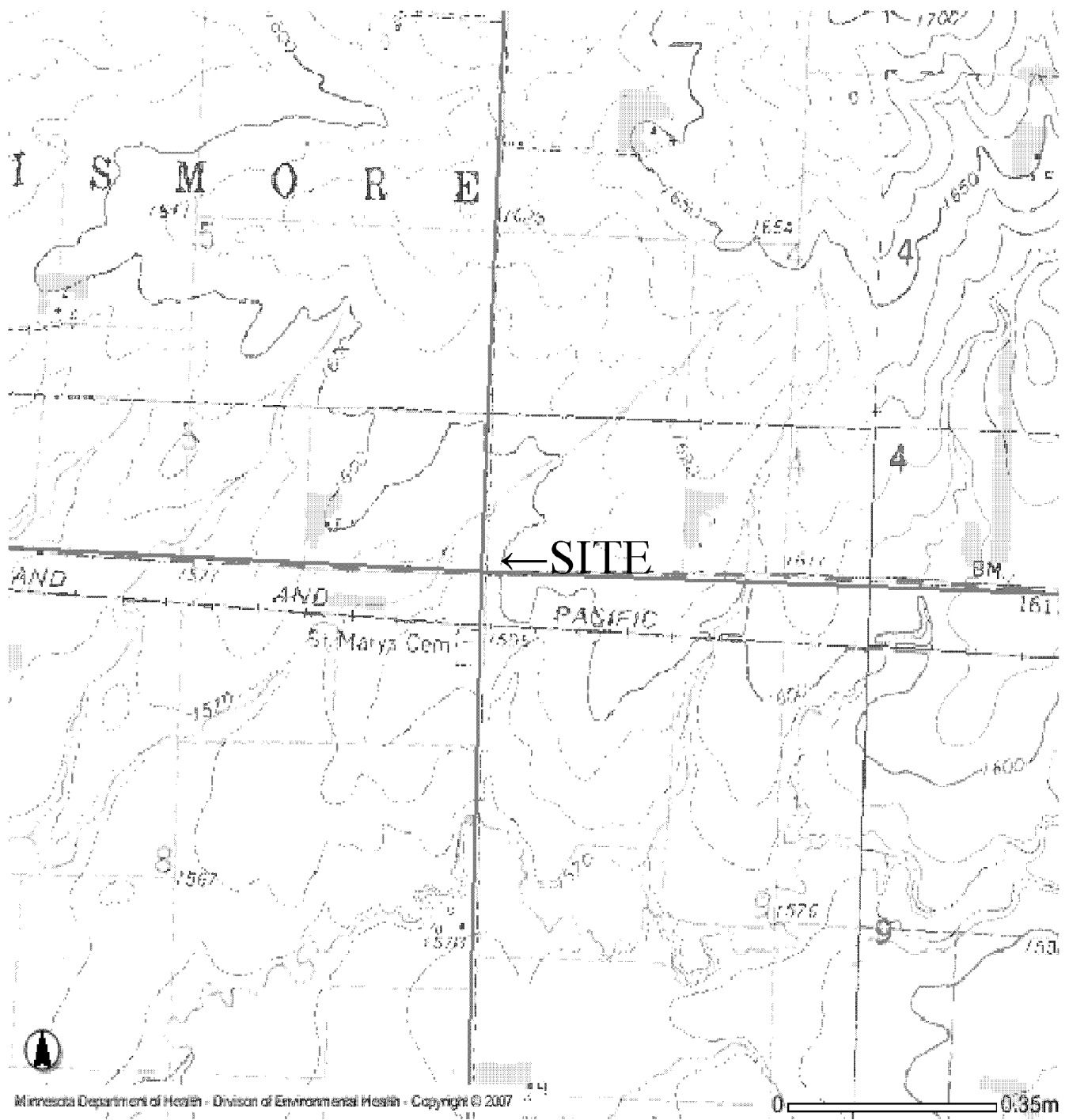
Nearest wetland: 1/4 to 1/2 mile south

Nearest water well: More than 1 mile

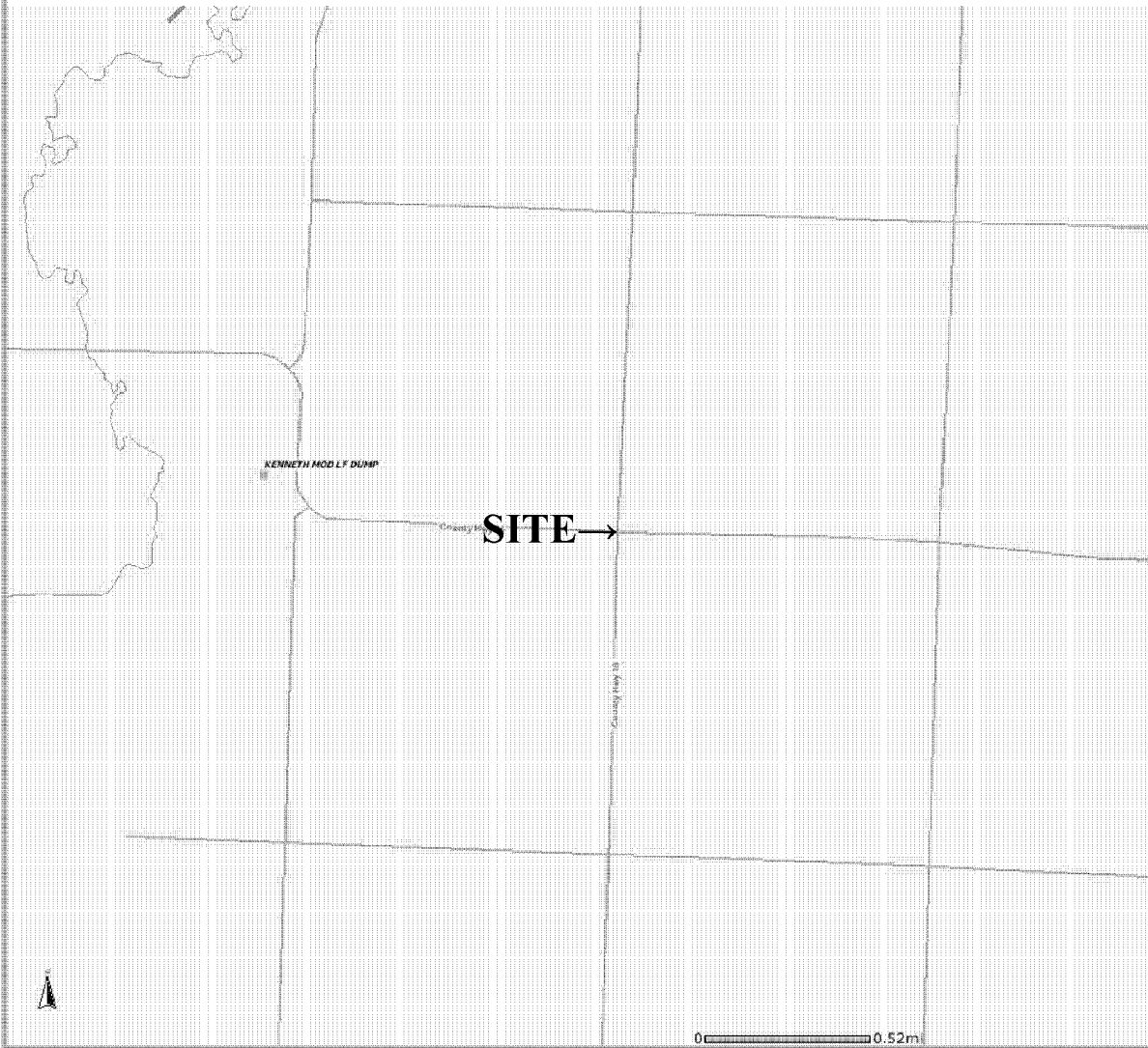
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 16

LISMORE CWI Well Map



Lismore What's In My Neighborhood Map

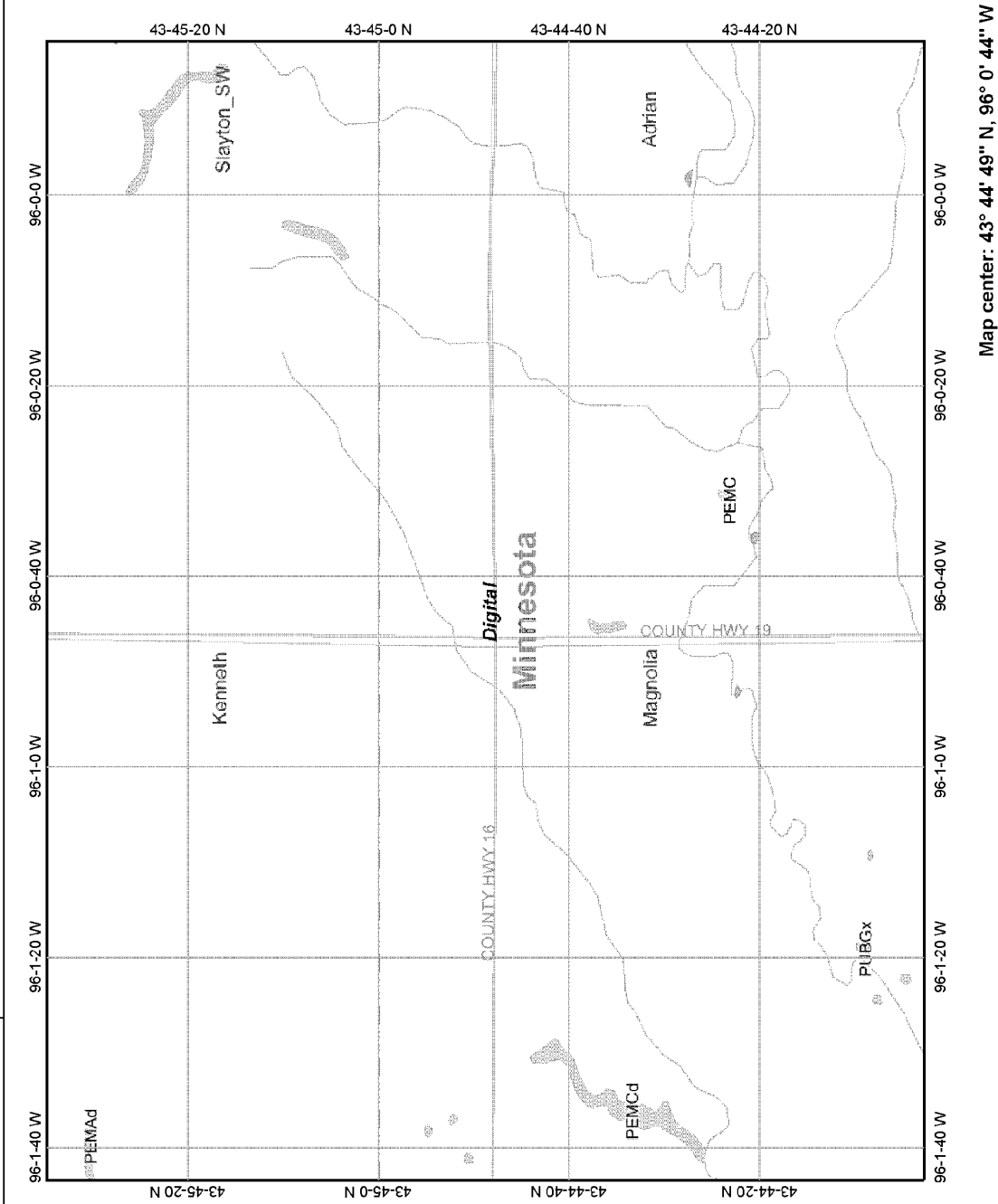


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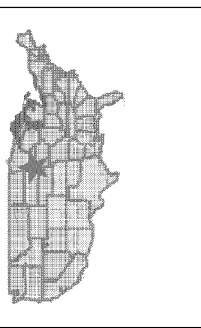
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Lismore Wetland Map



Map center: 43° 44' 49" N, 96° 0' 44" W



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
 - South America
 - North America



Scale: 1:19,891

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

SITE SUMMARY

Site Name: Littlefork

Fire Department: Littlefork Fire Department
PO Box 387
Littlefork, MN 56653

Site Contact: Michael LaClair, Secretary
218-278-6666

Training Location: Fire hall, corner of McPherson and 3rd Avenue, Littlefork

Type of foam used in training: Not specified, 3M foam use assumed

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: Not specified

Nearest surface water: Little Fork River less than 1/4 mile west

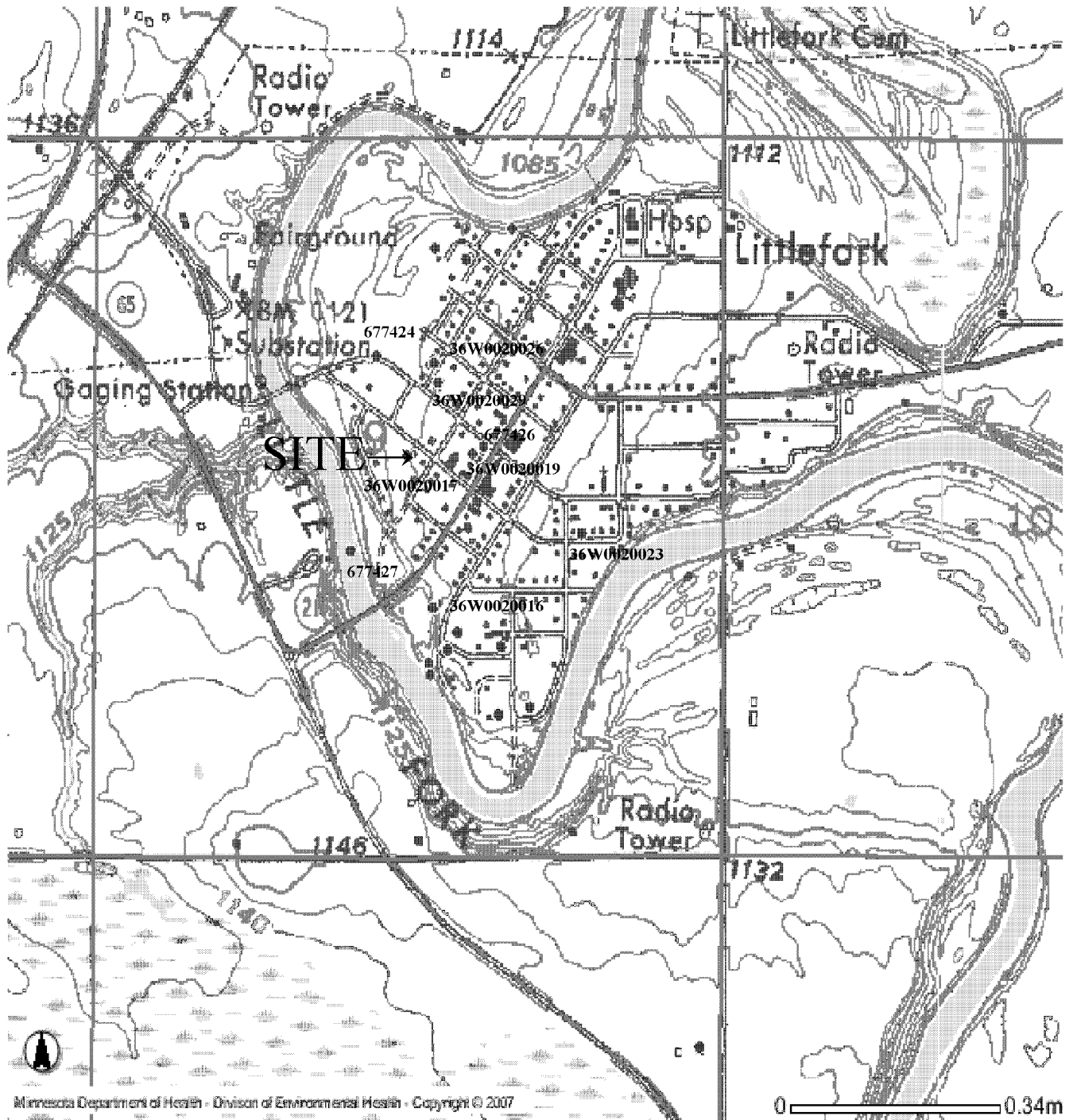
Nearest wetland: On or adjacent to training site

Nearest water well: On or adjacent to training site

Nearest Wellhead Protection Area: More than 1 mile

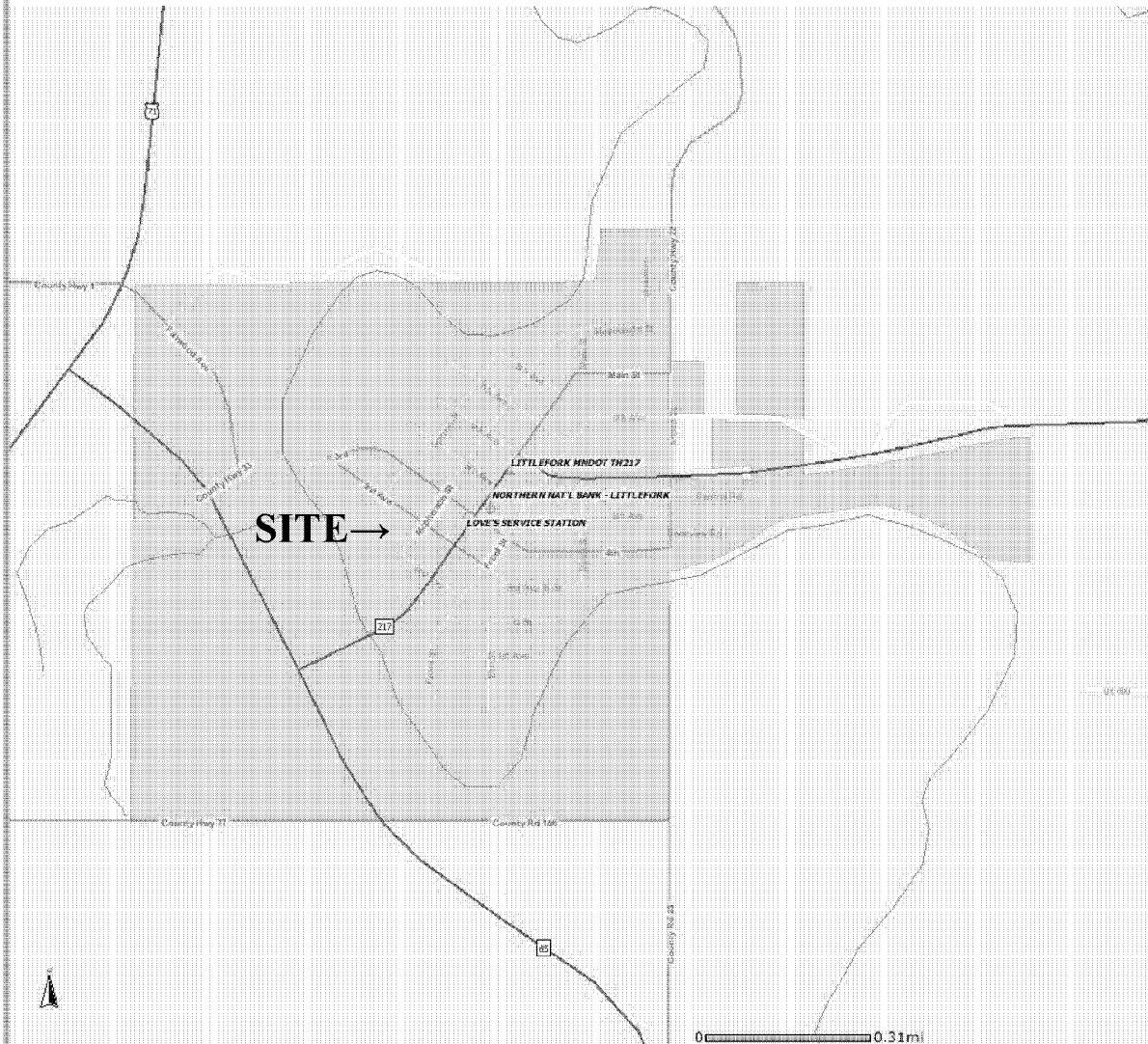
SITE RANKING: 19

LITTLEFORK CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Littlefork What's In My Neighborhood Map

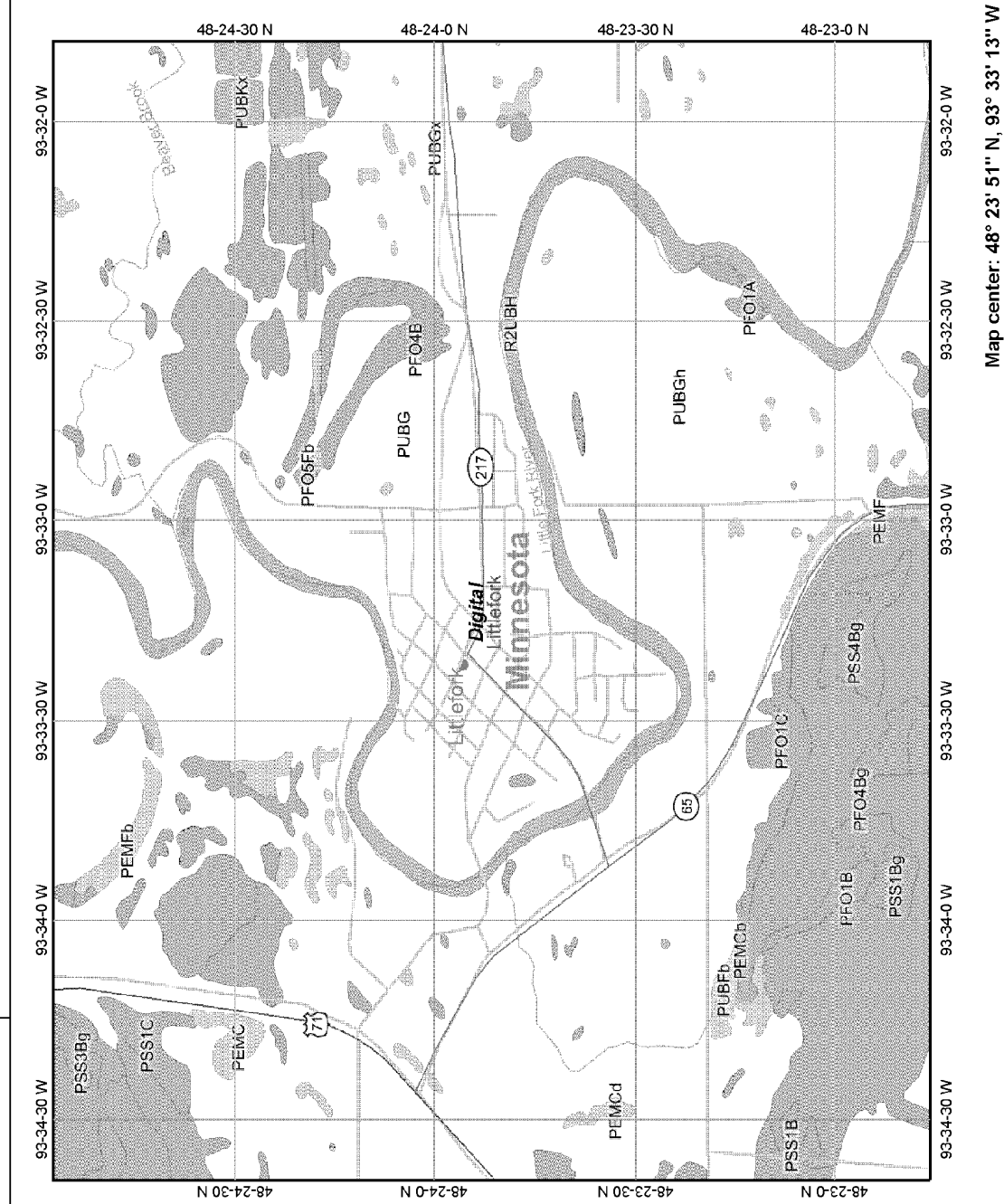


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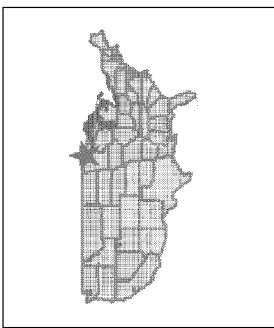
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Littlefork Wetland Map



Map center: 48° 23' 51" N, 93° 33' 13" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:28,460

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Minnesota Unique Well No.

677424

County Koochiching
Quad Littlefork
Quad ID 405A

*Minnesota Statutes Chapter
1031*

Well Name MW-		Well Depth 20 ft.	Depth Completed 20 ft.	Date Well Completed 04/03/2003	
Township Range Dir Section Subsections Elevation 68 25 W 9 BDAA		Elevation 1113 ft. Calc from DEM (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Auger (non-specified)			
Geological Material SAND CLAY WSILT		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
		Use Monitor well			
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.			
		Casing Diameter 2 in. to 10 ft.		Weight 0.69 lbs./ft.	Hole Diameter 8.25 in. to 20 ft.
		Open Hole from ft. to ft.			
		Screen YES Make MONOFLEX Type plastic			
		Diameter 2	Slot/Gauze 10	Length 10	Set Between 10 ft. and 20 ft.
		Static Water Level 15 ft. from Land surface Date Measured 04/03/2003			
		PUMPING LEVEL (below land surface) fl. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS WELL: 4TH AVE & SPRUCE STREET		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 8 ft. 3 bags			
Located Minnesota Department of Health		Method GPS SA Off (averaged)			
Unique Number Verification N/A		Date 04/30/2003			
System UTM - Nad83, Zone15, Meters		X: 458445 Y: 5360779			
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Matrix Environmental</u> <u>M0175</u> <u>PAQUETTE,</u> <u>G</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		677424	Printed 6/27/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Minnesota Unique Well No.

677426

County Koochiching
Quad Littlefork
Quad ID 405A

*Minnesota Statutes Chapter
1031*

Well Name MW		Well Depth 20 ft.	Depth Completed 20 ft.	Date Well Completed 04/03/2003												
Township Range Dir Section Subsections Elevation 68 25 W 9 ACCA		1115 ft. Calc from DEM (USGS 7.5 min or equiv.)														
Elevation Method		Drilling Method Auger (non-specified)														
Geological Material SAND SILTY CLAY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>19</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>19</td> <td>20</td> </tr> </tbody> </table>		Color	Hardness	From	To	BROWN	MEDIUM	0	19	BROWN	MEDIUM	19	20	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To											
		BROWN	MEDIUM	0	19											
		BROWN	MEDIUM	19	20											
		Use Monitor well														
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.														
		Casing Diameter 2 in. to 10 ft.		Weight 0.69 lbs./ft.	Hole Diameter 8.25 in. to 20 ft.											
		Open Hole from ft. to ft.														
		Screen YES Make MONOFLEX Type plastic														
		Diameter 2		Slot/Gauze 10	Length 10	Set Between 10 ft. and 20 ft.										
Static Water Level 15 ft. from Land surface Date Measured 04/03/2003																
PUMPING LEVEL (below land surface) fl. after hrs. pumping g.p.m.																
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																
REMARKS LOCATION: 4TH AVE & MAIN ST. LITTLEFORK, MN		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 8 ft. 3 bags														
Located Minnesota Department of Health		Method GPS SA Off (averaged)														
Unique Number Verification N/A		Date 04/30/2003														
System UTM - Nad83, Zone15, Meters		X: 458720 Y: 5360576														
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Matrix Environmental</u> <u>M0175</u> <u>PAQUETTE,</u> <u>G</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		677426	Printed 6/27/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Minnesota Unique Well No.

677427

County Koochiching
Quad Littlefork
Quad ID 405A

*Minnesota Statutes Chapter
1031*

Well Name MW		Well Depth 18 ft.	Depth Completed 18 ft.	Date Well Completed 04/02/2003												
Township Range Dir Section Subsections Elevation 68 25 W 9 CAAC		1086 ft. Calc from DEM (USGS 7.5 min or equiv.)														
Elevation Method		Drilling Method Auger (non-specified)														
Geological Material SAND SILTY CLAY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>17</td> </tr> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>17</td> <td>18</td> </tr> </tbody> </table>		Color	Hardness	From	To	BROWN	MEDIUM	0	17	BROWN	MEDIUM	17	18	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To											
		BROWN	MEDIUM	0	17											
		BROWN	MEDIUM	17	18											
		Use Monitor well														
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.														
		Casing Diameter 2 in. to 8 ft.		Weight 0.69 lbs./ft.	Hole Diameter 8.25 in. to 18 ft.											
		Open Hole from ft. to ft.														
		Screen YES Make MONOFLEX Type plastic														
		Diameter 2		Slot/Gauze 10	Length 10	Set Between 8 ft. and 18 ft.										
Static Water Level 13 ft. from Land surface Date Measured 04/02/2003																
PUMPING LEVEL (below land surface) fl. after hrs. pumping g.p.m.																
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																
REMARKS LOCATION: 2ND AVE & MCPHERSON ST. LITTLEFORK., MN		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 6 ft. 2.5 bags														
Located Minnesota Department of Health		Method GPS SA Off (averaged)														
Unique Number Verification N/A		Date 04/30/2003														
System UTM - Nad83, Zone15, Meters		X: 458378 Y: 5360341														
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Matrix Environmental</u> <u>M0175</u> <u>PAQUETTE,</u> <u>G</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		677427	Printed 6/27/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

36W0020016

County Koochiching
Quad Littlefork
Quad ID 405A

*Minnesota Statutes Chapter
1031*

Well Name	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	ft.	ft.	
68 25 W 9 DBCBAC Elevation Method	1102 ft.		
	Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method			
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Use		From Ft. to Ft.	
Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Casing Diameter		Weight	Hole Diameter
Open Hole from ft. to ft.			
Screen			
Diameter	Slot/Gauze	Length	Set Between
Geological Material	Color	Hardness	From To
Static Water Level			
ft. from Date Measured			
PUMPING LEVEL (below land surface)			
ft. after hrs. pumping g.p.m.			
Well Head Completion			
Pitless adapter manufacturer Model			
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Nearest Known Source of Contamination			
_feet _direction _type			
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed			
Manufacturer's name Model number __ HP _ Volts			
Length of drop Pipe _ft. Capacity _g.p.m Type Material			
Abandoned Wells Does property have any not in use and not sealed well(s)?			
<input type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes			
<input type="checkbox"/> No			
Well Contractor Certification			
License Business Name Lic. Or Reg. No. Name of Driller			

NO REMARKS

Located Minnesota
Department of Health
Method GPS Differentially Corrected
Unique Number
Verification N/A
Date N/A
System UTM - Nad83, Zone15,
Meters
X: 458590 **Y:** 5360212

County Well Index Online Report	36W0020016	Printed 6/27/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

36W0020017

County Koochiching
Quad Littlefork
Quad ID 405A

*Minnesota Statutes Chapter
1031*

Well Name	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	ft.	ft.	
68 25 W 9 BDDDAA Elevation Method	1114 ft.		
	Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method			
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Use		From Ft. to Ft.	
Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Casing Diameter		Weight	Hole Diameter
Open Hole from ft. to ft.			
Screen			
Diameter	Slot/Gauze	Length	Set Between
Geological Material	Color	Hardness	From To
Static Water Level			
ft. from Date Measured			
PUMPING LEVEL (below land surface)			
ft. after hrs. pumping g.p.m.			
Well Head Completion			
Pitless adapter manufacturer		Model	
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade	
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Nearest Known Source of Contamination			
_feet _direction _type			
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed			
Manufacturer's name		Model number __ HP _ Volts	
Length of drop Pipe _ft.		Capacity _g.p.m Type Material	
Abandoned Wells Does property have any not in use and not sealed well(s)?			
<input type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes			
<input type="checkbox"/> No			
Well Contractor Certification			
First Bedrock		Aquifer	
Last Strat		Depth to Bedrock ft.	
License Business Name		Lic. Or Reg. No. Name of Driller	

NO REMARKS

Located Minnesota
Department of Health
Method GPS Differentially Corrected
Unique Number
Verification N/A
Date N/A
System UTM - Nad83, Zone15,
Meters
X: 458525 **Y:** 5360554

County Well Index Online Report	36W0020017	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

36W0020018

County Koochiching
 Quad Littlefork
 Quad ID 405A

MINNESOTA
 DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/22/2003
 Update Date 01/07/2005
 Received Date

Minnesota Statutes Chapter
 1031

Well Name	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	ft.	ft.	
68 25 W 9 ACCDAB Elevation Method	1115 ft.		
	Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method			
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Use		From Ft. to Ft.	
Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Casing Diameter		Weight	Hole Diameter
Open Hole from ft. to ft.			
Screen			
Diameter	Slot/Gauze	Length	Set Between
Geological Material	Color	Hardness	From To
Static Water Level			
ft. from Date Measured			
PUMPING LEVEL (below land surface)			
ft. after hrs. pumping g.p.m.			
Well Head Completion			
Pitless adapter manufacturer		Model	
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade	
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Nearest Known Source of Contamination			
_feet _direction _type			
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed			
Manufacturer's name		Model number __ HP _ Volts	
Length of drop Pipe _ft.		Capacity _g.p.m Type Material	
Abandoned Wells Does property have any not in use and not sealed well(s)?			
<input type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes			
<input type="checkbox"/> No			
Well Contractor Certification			
First Bedrock		Aquifer	
Last Strat		Depth to Bedrock ft.	
License Business Name		Lic. Or Reg. No. Name of Driller	

NO REMARKS

Located Minnesota
 Department of Health
Method GPS Differentially Corrected
Unique Number
Verification N/A
Date N/A
System UTM - Nad83, Zone15,
 Meters X: 458692 Y: 5360559

County Well Index Online Report	36W0020018	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

36W0020019

County Koochiching
 Quad Littlefork
 Quad ID 405A

MINNESOTA
 DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/22/2003
 Update Date 01/07/2005
 Received Date

Minnesota Statutes Chapter
 1031

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		ft.	ft.	
68	25 W 9 ACBCAC	1115 ft.		
Elevation Method		Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method				
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Use		From Ft. to Ft.		
Casing Type		Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
Casing Diameter		Weight		Hole Diameter
Open Hole		from ft. to ft.		
Screen Diameter		Slot/Gauze	Length	Set Between
Geological Material	Color	Hardness	From To	
Static Water Level				
ft. from Date Measured				
PUMPING LEVEL (below land surface)				
ft. after hrs. pumping g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number __ HP _ Volts				
Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes				
<input type="checkbox"/> No				
Well Contractor Certification				
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock		Aquifer		
Last Strat		Depth to Bedrock ft.		

NO REMARKS

Located Minnesota Department of Health
 Method GPS SA On (averaged)
 Unique Number Verification N/A Date N/A
 System UTM - Nad83, Zone15, Meters
 X: 458603 Y: 5360720

County Well Index Online Report	36W0020019	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

36W0020023

County Koochichng
 Quad Littlefork
 Quad ID 405A

MINNESOTA
 DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/22/2003
 Update Date 01/07/2005
 Received Date

Minnesota Statutes Chapter
 1031

Well Name		Well Depth	Depth Completed	Date Well Completed		
Township Range Dir Section Subsections Elevation		ft.	ft.			
68	25 W 9 DABBCD	1106 ft.				
Elevation Method		Drilling Method				
Calc from DEM (USGS 7.5 min or equiv.)						
Geological Material Color Hardness From To		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Use	From Ft. to Ft.			
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.	
		Casing Diameter	Weight	Hole Diameter		
		Open Hole from ft. to ft.				
		Screen Diameter	Slot/Gauze	Length	Set Between	
		Static Water Level				
		ft. from Date Measured				
		PUMPING LEVEL (below land surface)				
		ft. after hrs. pumping g.p.m.				
Well Head Completion						
Pitless adapter manufacturer Model						
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method GPS Differentially Corrected</p> <p>Unique Number Date N/A</p> <p>Verification N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 458972 Y: 5360380</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination				
		_feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number HP Volts						
Length of drop Pipe ft. Capacity g.p.m Type Material						
Abandoned Wells Does property have any not in use and not sealed well(s)?						
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes						
<input type="checkbox"/> No						
Well Contractor Certification						
First Bedrock	Aquifer	License Business Name Lic. Or Reg. No. Name of Driller				
Last Strat	Depth to Bedrock ft.					

County Well Index Online Report	36W0020023	Printed 6/27/2008 HE-01205-07
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County Well Index Online Report	36W0020026	Printed 6/27/2008 HE-01205-07
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SITE SUMMARY

Site Name: Loretto

Fire Department: Loretto Fire Department
259 N. Medina Street
Loretto, MN 55357

Site Contact: Jeff Leuer, Assistant Fire Chief
763-479-3036
lorettopublicworks@hotmail.com

Training Location: 259 Medina Street N., Loretto

Type of foam used in training: AFFF: 3M

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Storm sewer

Annual foam use: 5 gallons

Nearest surface water: Intermittent stream 1/4 to 1/3 mile northwest

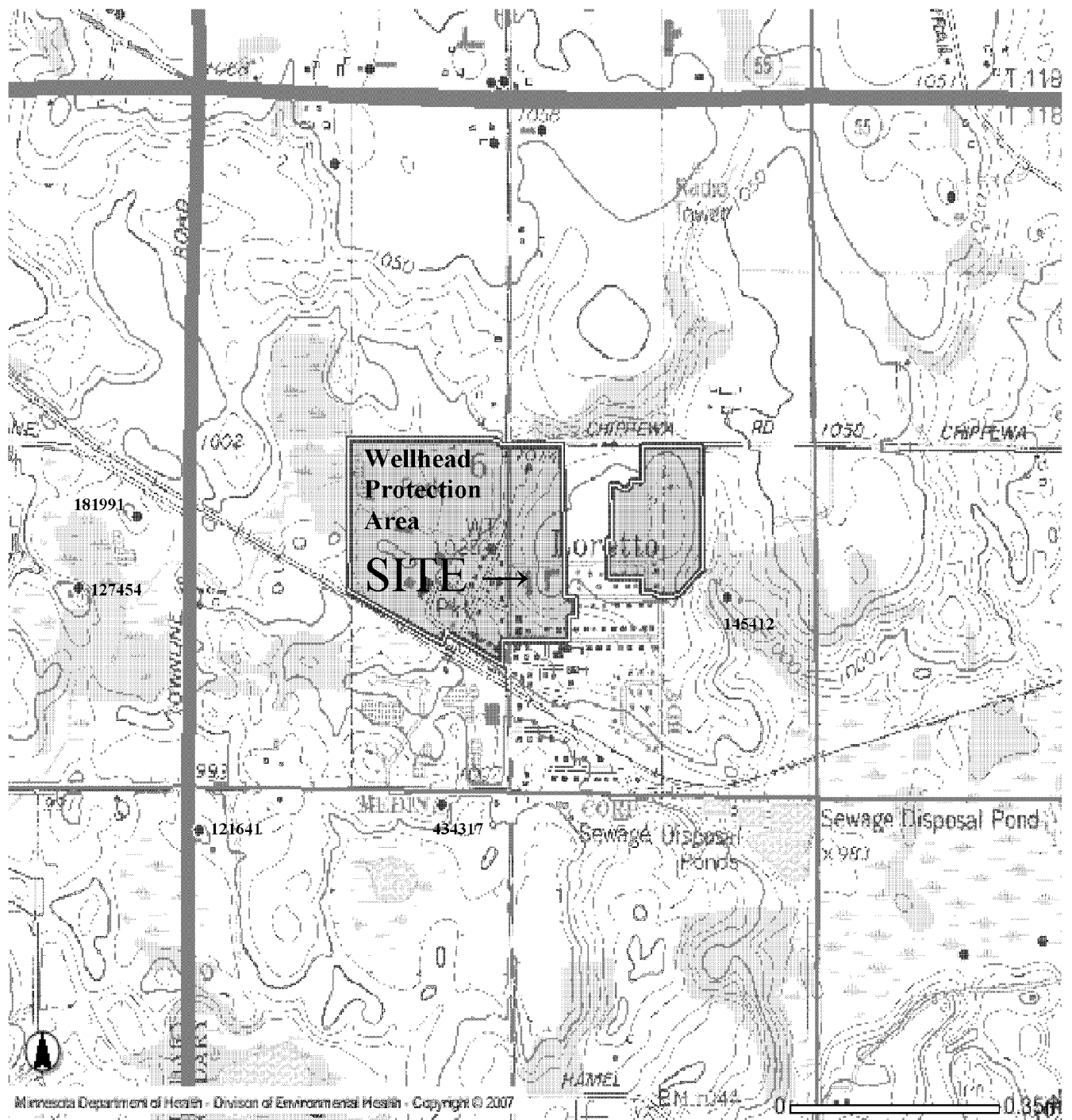
Nearest wetland: Approximately 1/4 mile northwest

Nearest water well: 1/4 to 1/3 mile east

Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 18

LORETTO CWI Well Map



Loretto What's In My Neighborhood Map

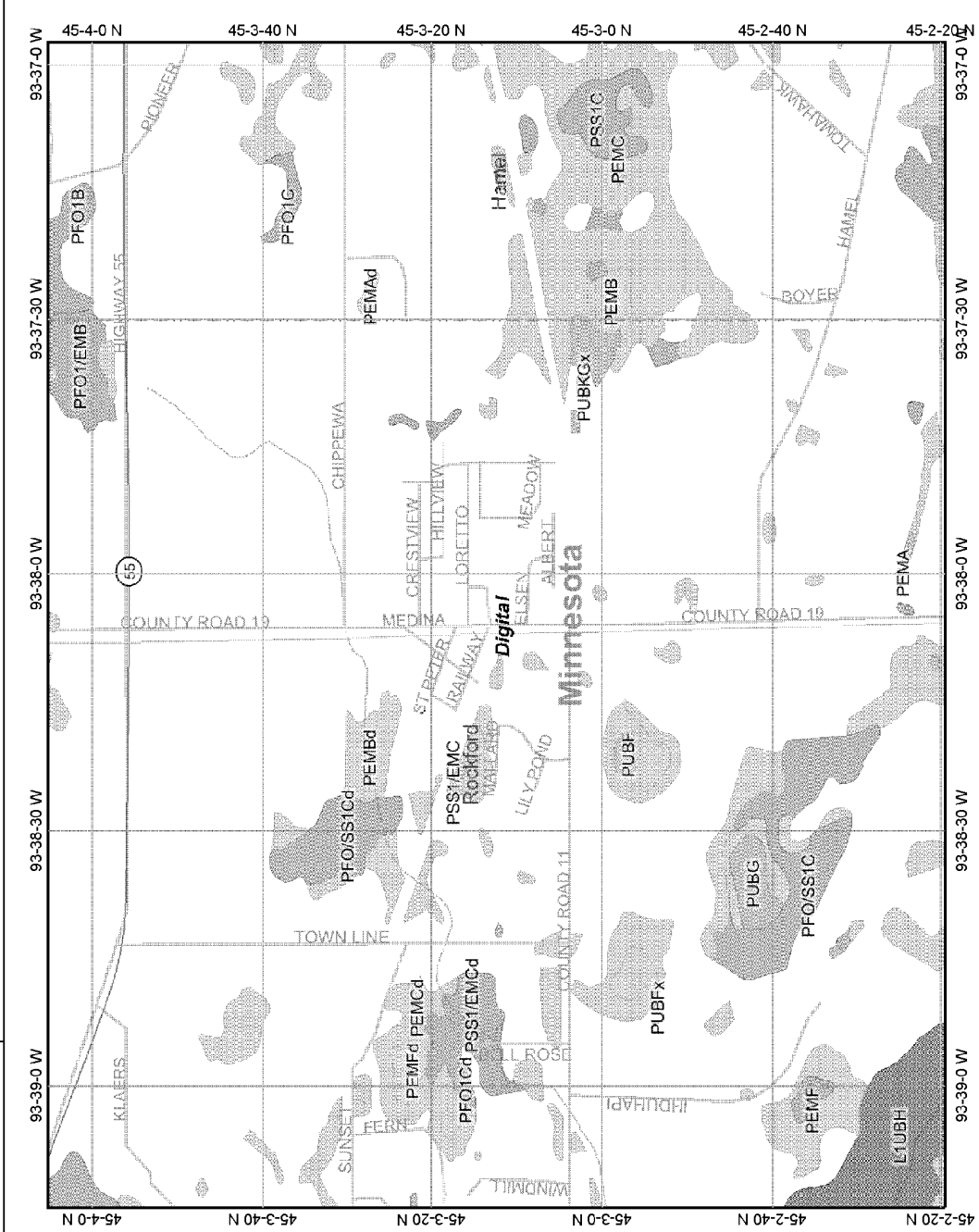


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

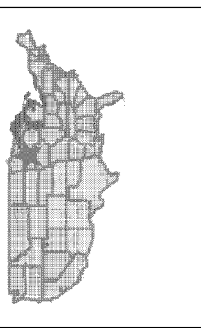
 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Loretto



Map center: 45° 3' 12" N, 93° 38' 6" W



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
 - Other Road
 - Interstate
 - State highway
 - US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:22,823

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

121641

County Hennepin
 Quad Rockford
 Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 08/24/1991
 Update Date 07/24/2003
 Received Date

Well Name GLEN FRY Township Range Dir Section Subsections Elevation 1001 ft. 118 23 W 7 BBBBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 158 ft. Depth Completed 158 ft. Date Well Completed 04/30/1979																
Well Address 4975 11 CR MAPLE PLAIN MN		Drilling Method Non-specified Rotary																
Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>YELLOW</td> <td>MEDIUM</td> <td>0</td> <td>22</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>22</td> <td>142</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>142</td> <td>158</td> </tr> </tbody> </table>		Color	Hardness	From	To	YELLOW	MEDIUM	0	22	GRAY	MEDIUM	22	142	GRAY	SOFT	142	158	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Color	Hardness	From	To															
YELLOW	MEDIUM	0	22															
GRAY	MEDIUM	22	142															
GRAY	SOFT	142	158															
Use Domestic		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.																
Casing Diameter 4 in. to 152 ft. Weight 11 lbs./ft. Hole Diameter		Open Hole from ft. to ft.																
Screen YES Make JOHNSON Type stainless steel		Diameter Slot/Gauze 12 Length 4 Set Between 152 ft. and 158 ft.																
Static Water Level 65 ft. from Land surface Date Measured 04/30/1979		PUMPING LEVEL (below land surface) 65 ft. after 2 hrs. pumping 25 g.p.m.																
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 20 ft.																
NO REMARKS		Nearest Known Source of Contamination 60 feet S direction Septic tank/drain field_type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 449164 Y: 4988735		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name STA-RITE Model number ___ HP 1 Volts 220 Length of drop Pipe 90 ft. Capacity 15 g.p.m. Type Submersible Material Plastic																
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																
County Well Index Online Report		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Drilleo 27264 URAN, J. License Business Name Lic. Or Reg. No. Name of Driller																
121641		Printed 6/27/2008 HE-01205-07																

Minnesota Unique Well No.

127454

County Hennepin
 Quad Rockford
 Quad ID 121C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name STEVE KVISTAD		Well Depth 140 ft.	Depth Completed 140 ft.	Date Well Completed 07/30/1984
Township Range Dir Section Subsections Elevation 118 24 W 1 DACCAD		Elevation Method 1010 ft. 7.5 minute topographic map (+/- 5 feet)		
Drilling Method --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.		
Casing Diameter 4 in. to 136 ft.		Weight lbs./ft.	Hole Diameter	
Well Address 5082 FERN DR INDEPENDENCE MN		Open Hole from ft. to ft.		
Geological Material CLAY SAND + GRAVEL		Color	Hardness	From To 0 50 50 140
		Screen YES Make JOHNSON Type stainless steel		
		Diameter 4	Slot/Gauze 10	Length 4
		Set Between 136 ft. and 140 ft.		
		Static Water Level 75 ft. from Land surface Date Measured 07/30/1984		
		PUMPING LEVEL (below land surface) 75 ft. after hrs. pumping 20 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number Verification N/A		Date N/A		
System UTM - Nad83, Zone15, Meters		X: 448847 Y: 4989295		
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name PIONEER Model number __ HP 0.75 Volts 230 Length of drop Pipe 95 ft. Capacity 12 g.p.m Type Submersible Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock		Well Contractor Certification Stodola Don Well Co. 27172		
Last Strat Sand		License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer Quat. Buried Unconf. Aquife		Depth to Bedrock ft.		

County Well Index Online Report	127454	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

145412

County Hennepin
 Quad Rockford
 Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 02/04/2004
 Received Date

Well Name DFEMPSEY, MARK Township Range Dir Section Subsections Elevation 1010 ft. 118 23 W 6 DADCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 220 ft.	Depth Completed 220 ft.	Date Well Completed 07/27/1978	
Drilling Method Non-specified Rotary				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.			
Well Address 4200 HLINE RD LORETTO MN				Casing Diameter 4 in. to 216 ft.	Weight 11 lbs./ft.	Hole Diameter 6.75 in. to 216 ft. 4 in. to 220 ft.	
Geological Material CLAY CLAY CLAY WATER SAND				Color YELLOW BLUE RED BROWN	Hardness MEDIUM MEDIUM MEDIUM SOFT	From To 0 5 5 158 158 199 199 220	
Open Hole from ft. to ft.				Screen YES Make JOINSON Type stainless steel			
Diameter 4 Slot/Gauze 15 Length 0 Set Between 216 ft. and 220 ft.				Static Water Level 95 ft. from Land surface Date Measured 07/26/1978			
PUMPING LEVEL (below land surface) 109 ft. after 4 hrs. pumping 354 g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 216 ft. Grout Material: Cuttings from to ft.			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Nearest Known Source of Contamination 50 feet North West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 450557 Y: 4989273				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/01/1978 Manufacturer's name MCDONALD Model number 1607563 B HP 1 Volts 220 Length of drop Pipe 138 ft. Capacity 16 g.p.m Type Submersible Material Steel (black or low carbon)			
First Bedrock Last Strat Sand-brown				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report				Well Contractor Certification Ruppert & Son 27086 RUPPERT, G. License Business Name Lic. Or Reg. No. Name of Driller			
				145412		Printed 6/27/2008 HE-01205-07	

Minnesota Unique Well No.

181991

County Hennepin
 Quad Rockford
 Quad ID 121C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name TERRY BROWN		Well Depth 170 ft.	Depth Completed 170 ft.	Date Well Completed 11/19/1981																																													
Township Range Dir Section Subsections Elevation 118 24 W 1 DAACCA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --																																															
Well Address 4875 SUNSET LA INDEPENDENCE MN 55357 <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>CLAY</td><td>BROWN</td><td>SOFT</td><td>0</td><td>20</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td>SOFT</td><td>20</td><td>40</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td>SOFT</td><td>40</td><td>60</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td>SOFT</td><td>60</td><td>70</td></tr> <tr><td>FAIR SAND</td><td>BROWN</td><td>SOFT</td><td>70</td><td>75</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>SOFT</td><td>75</td><td>145</td></tr> <tr><td>GOOD SAND + GRAVEL</td><td>GRAY</td><td>SOFT</td><td>145</td><td>158</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>MEDIUM</td><td>158</td><td>170</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CLAY	BROWN	SOFT	0	20	SANDY CLAY	BROWN	SOFT	20	40	SANDY CLAY	BROWN	SOFT	40	60	SANDY CLAY	BROWN	SOFT	60	70	FAIR SAND	BROWN	SOFT	70	75	CLAY	GRAY	SOFT	75	145	GOOD SAND + GRAVEL	GRAY	SOFT	145	158	CLAY	GRAY	MEDIUM	158	170	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																											
		CLAY	BROWN	SOFT	0	20																																											
		SANDY CLAY	BROWN	SOFT	20	40																																											
		SANDY CLAY	BROWN	SOFT	40	60																																											
		SANDY CLAY	BROWN	SOFT	60	70																																											
		FAIR SAND	BROWN	SOFT	70	75																																											
		CLAY	GRAY	SOFT	75	145																																											
		GOOD SAND + GRAVEL	GRAY	SOFT	145	158																																											
		CLAY	GRAY	MEDIUM	158	170																																											
Use Domestic		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																																															
Casing Diameter 4 in. to 150 ft.		Weight lbs./ft.	Hole Diameter																																														
Open Hole from ft. to ft.		Screen YES Make JOHNSON Type other																																															
		Diameter 2	Slot/Gauze 20	Length 4																																													
		Set Between 150 ft. and 154 ft.																																															
		Static Water Level 68 ft. from Land surface Date Measured 11/19/1981																																															
		PUMPING LEVEL (below land surface) 69 ft. after hrs. pumping 15 g.p.m.																																															
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																															
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																															
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)																																															
Unique Number Verification N/A		Date N/A																																															
System UTM - Nad83, Zone15, Meters		X: 449001 Y: 4989460																																															
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name FAIRBANKS MORSE Model number HP 0.5 Volts 230 Length of drop Pipe 100 ft. Capacity g.p.m. Type Submersible Material																																															
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
First Bedrock		Well Contractor Certification Ingleside Engr. 27355																																															
Last Strat Till-gray		License Business Name Lic. Or Reg. No. Name of Driller																																															
County Well Index Online Report		181991		Printed 6/27/2008 HE-01205-07																																													

Minnesota Unique Well No.

434317

County Hennepin
 Quad Rockford
 Quad ID 121C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 07/24/2003
 Received Date

Minnesota Statutes Chapter 103I

Well Name VARNEY, JEFF		Well Depth 168 ft.	Depth Completed 168 ft.	Date Well Completed 05/28/1987																
Township Range Dir Section Subsections Elevation 118 23 W 7 BAABBD		Elevation Method 7.5 minute topographic map (+/- 5 feet)																		
Drilling Method Non-specified Rotary																				
Well Address 4625 11 CR MEDINA MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td></td> <td>0</td> <td>110</td> </tr> <tr> <td>GRAVEL</td> <td></td> <td>110</td> <td>155</td> </tr> <tr> <td>WATER SAND</td> <td></td> <td>155</td> <td>168</td> </tr> </tbody> </table>		Color	Hardness	From	To	CLAY		0	110	GRAVEL		110	155	WATER SAND		155	168	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To															
		CLAY		0	110															
		GRAVEL		110	155															
		WATER SAND		155	168															
		Use Domestic																		
		Casing Type Plastic	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																
		No Above/Below 0 ft.																		
		Casing Diameter 4 in. to 153 ft.	Weight 1.89 lbs./ft.	Hole Diameter 4 in. to 168 ft.																
		Open Hole from ft. to ft.																		
Screen YES	Make JOHNSON	Type stainless steel																		
Diameter 2	Slot/Gauze 15	Length	Set Between ft. and ft.																	
Static Water Level 98 ft. from Land surface Date Measured 05/28/1987																				
PUMPING LEVEL (below land surface) 115 ft. after 3 hrs. pumping 12 g.p.m.																				
Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																				
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Address verification Date N/A System UTM - Nad83, Zone15. Meters X: 449805 Y: 4988794		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 153 ft.																		
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/21/1987 Manufacturer's name MYERS Model number ___ HP 1 Volts Length of drop Pipe 132 ft. Capacity _g.p.m. Type Submersible Material Plastic																		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
First Bedrock Last Strat Sand		Aquifer Quat. Buried Artes. Aquifer	Depth to Bedrock ft.																	
Well Contractor Certification Torgerson Well Co. 27056 OTTEN, D. License Business Name Lic. Or Reg. No. Name of Driller																				
County Well Index Online Report		434317		Printed 6/27/2008 III-01205-07																

SITE SUMMARY

Site Name: Mankato

Fire Department: Mankato Fire Department
710 Front Street
Mankato, MN 56001

Site Contact: Al Ratzloff, Deputy Director, Fire
507-387-8703
aratzloff@city.mankato.mn.us

Training Location: Fire station #1, 300 Madison Avenue, Mankato

Type of foam used in training: AFFF: 3M, historical use
AR-AFFF: Angus Alcolseal, current use
Class A: Ansul Silv-ex, current use

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Storm sewer

Annual foam use: AFFF: 5 to 10 gallons, historical use
AR-AFFF: 5 to 10 gallons, current use
Class A: 5 gallons

Nearest surface water: Minnesota River 1/2 to 2/3 mile west

Nearest wetland: More than 1 mile

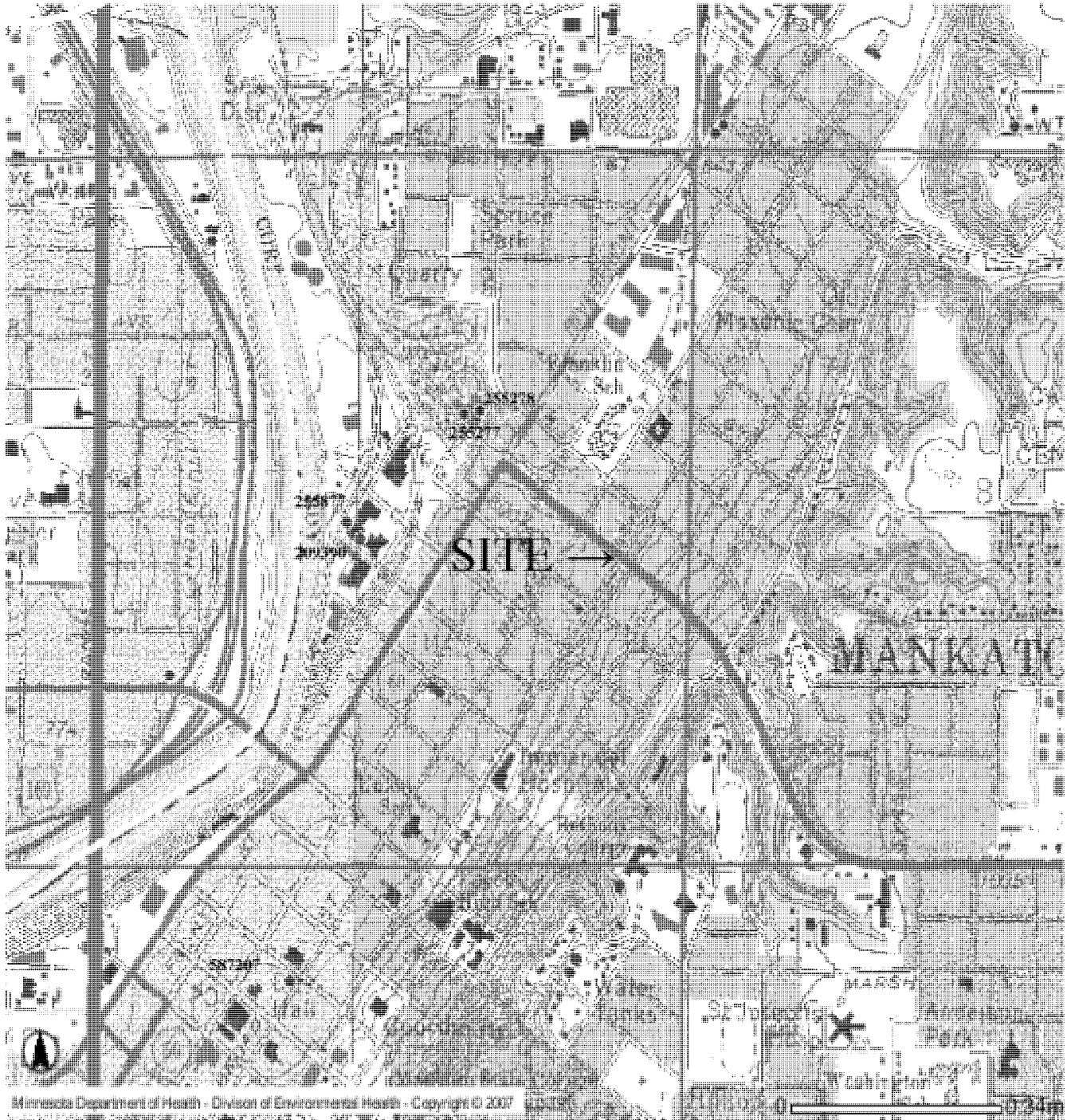
Karst Area: Training site appears to be in an active karst area

Nearest water well: Approximately 1/2 mile west

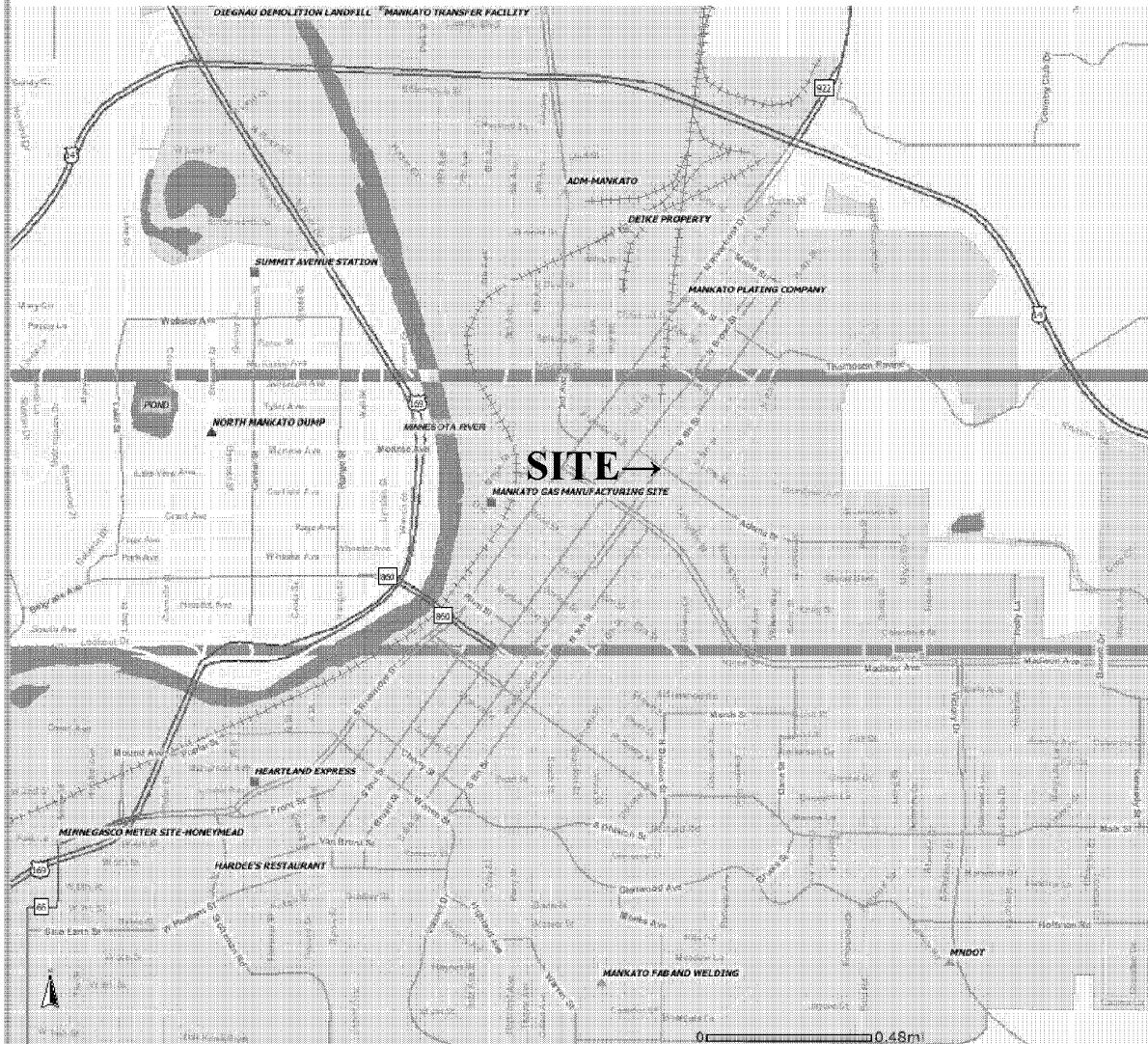
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 19

MANKATO CWI Well Map



Mankato What's In My Neighborhood Map



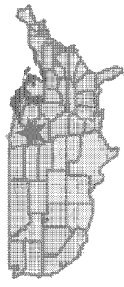
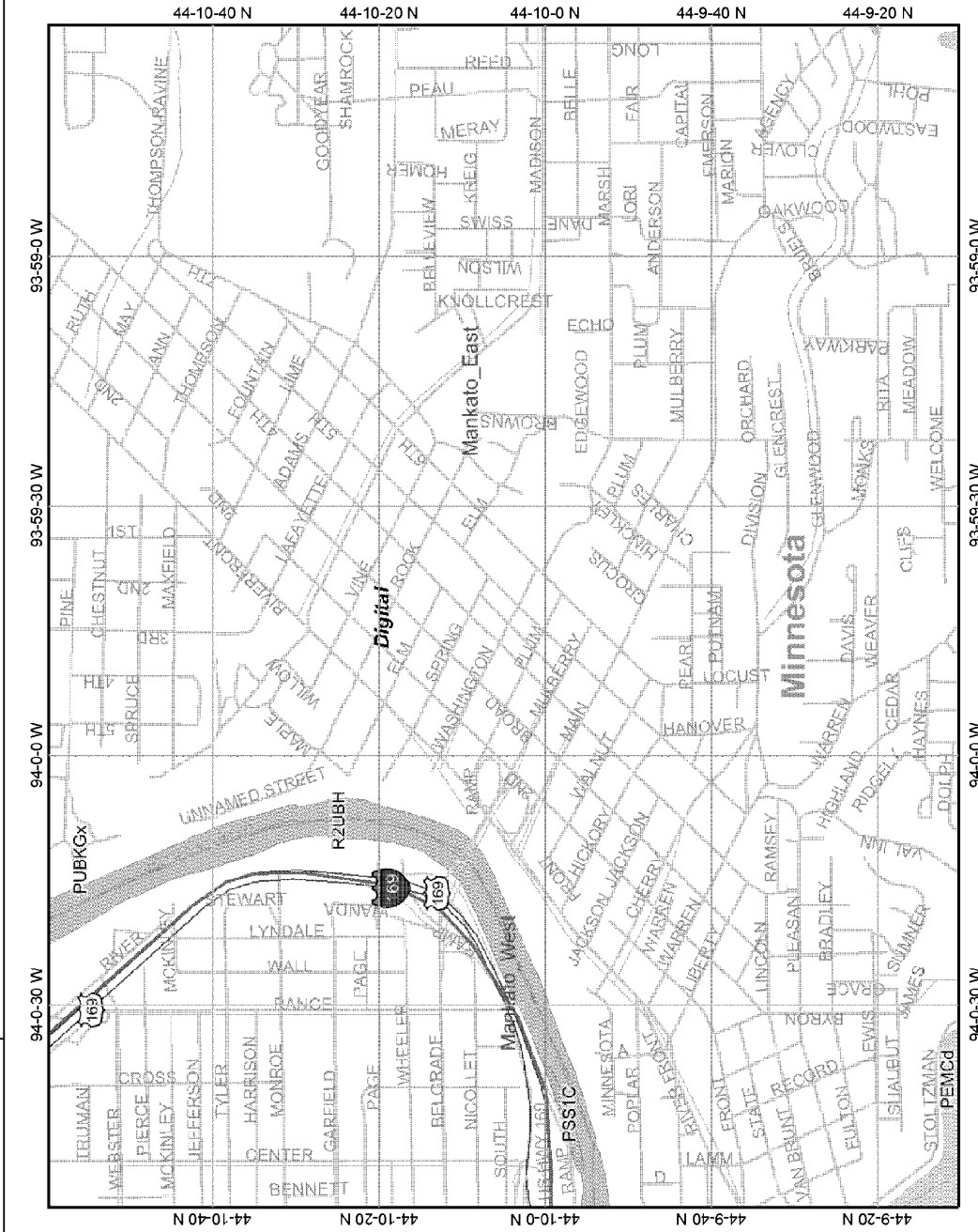
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 Minnesota Pollution Control Agency

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

Mankato



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Major Roads
 - Interstate
 - Other Road
 - State highway
 - US highway
- Roads
 - Cities
 - USGS Quad Index 24K
 - Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
 - South America
 - North America



Scale: 1:23,646

Map center: 44° 10' 5" N, 93° 59' 43" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.
209390

County Blue Earth
 Quad Mankato East
 Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
 Update Date 07/07/1997
 Received Date

Well Name STANDARD BREWING CO. Township Range Dir Section Subsections Elevation 778 ft. 108 26 W 7 CAAADC Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 525 ft.	Depth Completed 525 ft.	Date Well Completed 1903		
Drilling Method Cable Tool					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Industrial					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
Well Address MANKATO MN 56001					Casing Diameter 10 in. to ft.	Weight lbs./ft.	Hole Diameter		
Geological Material					Open Hole from ft. to ft.				
DRIFT SANDSTONE UNKNOWN SANDSTONE UNKNOWN	Color	Hardness	From 0 110 111 300 301	To 110 111 300 301 525	Screen Make Type	Diameter	Slot/Gauze	Length	Set Between
Static Water Level ft. from Date Measured					PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 50 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
REMARKS COPIED FROM U.S.G.S.					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number__ HP__ Volts Length of drop Pipe__ft. Capacity__g.p.m. Type Material				
Unique Number Verification Information from neighbor Date N/A					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
System UTM - Nad83, Zone15, Meters X: 420049 Y: 4891604					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Franconia Aquifer					Well Contractor Certification United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller				
Last Strat Cambrian,Undifferentiated Depth to Bedrock 110 ft.					County Well Index Online Report				
County Well Index Online Report					209390		Printed 6/27/2008 HE-01205-07		

Minnesota Unique Well No.

255277

County Blue Earth
 Quad Mankato East
 Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/15/2000
 Update Date 03/11/2005
 Received Date

Well Name MANKATO-KASOTA STONE 1 Township Range Dir Section Subsections Elevation 790 ft. 108 26 W 7 ACACCB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 90 ft. Depth Completed 90 ft.	Date Well Completed
Drilling Method --						
Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.						
Use Commercial						
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.						
Casing Diameter 5 in. to ft. Weight lbs./ft. Hole Diameter						
Open Hole from ft. to ft.						
Screen Make Type						
Diameter Slot/Gauze Length Set Between						
Static Water Level ft. from Date Measured						
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.						
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS MANIFOLDED WITH WELL NO.2. WELL PUMPED AT 65 GPM.						
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material						
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Well Contractor Certification Minnesota Dept. of Natural Resources MNDNR License Business Name Lic. Or Reg. No. Name of Driller						
First Bedrock Indeterminate Aquifer Indeterminate Last Strat Depth to Bedrock ft.						
County Well Index Online Report						
255277 Printed 6/27/2008 HE-01205-07						

Minnesota Unique Well No.

255278

County Blue Earth
 Quad Mankato East
 Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/15/2000
 Update Date 04/03/2008
 Received Date

Well Name MANKATO-KASOTA STONE 2 Township Range Dir Section Subsections Elevation 790 ft. 108 26 W 7 ACACCD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 260 ft. Depth Completed 260 ft. Date Well Completed
Drilling Method --		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Commercial		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
Casing Diameter 6 in. to ft. Weight lbs./ft. Hole Diameter		Open Hole from ft. to ft.
Well Address MANKATO MN 56001		Screen Make Type Diameter Slot/Gauze Length Set Between
Geological Material NO RECORD Color Hardness From To 0 260	Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.	
REMARKS MANIFOLDED WITH WELL NO.1. PUMPED AT 225 GPM. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 420361 Y: 4891897		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Last Strat No Record Aquifer Indeterminate Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Minnesota Dept. of Natural Resources MNDNR License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		255278 Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

255877

County Blue Earth
 Quad Mankato West
 Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/04/2002
 Update Date 03/11/2005
 Received Date

Well Name MANKATO COLD STORAGE Township Range Dir Section Subsections Elevation 785 ft. 108 26 W 7 CAABAB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 580 ft. Depth Completed 580 ft. Date Well Completed 10/18/1945
		Drilling Method Cable Tool
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Abandoned Status Sealed
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
Well Address 216 ELM ST W MANKATO MN 56001		Casing Diameter 12 in. to 68 ft. lbs./ft. 8 in. to 110 ft. lbs./ft.
		Open Hole from 116 ft. to 580 ft.
Geological Material Color Hardness From To SAND, CLAY, AND GRAVEL 0 68 LIMEROCK 68 110 HARDROCK & SHALE 110 260 SANDROCK 260 340 SHALE & SANDROCK 340 475 SANDROCK 475 580		Screen NO Make Type Diameter Slot/Gauze Length Set Between
		Static Water Level -21 ft. from Land surface Date Measured 10/18/1945
		PUMPING LEVEL (below land surface) ft. after hrs. pumping 60 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL DRILLED BY BENSON AND BERGREN. SEALED UNDER #H193433.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 110 ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Unique Number Verification Information from owner Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
System UTM - Nad83, Zone15, Meters X: 420015 Y: 4891642		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock St.Lawrence Aquifer Multiple Last Strat Mt.Simon Depth to Bedrock 68 ft.		Well Contractor Certification <u>Minnesota Geological Survey</u> <u>MGS</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		255877 Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

587207

County Blue Earth
 Quad Mankato West
 Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 11/11/1997
 Update Date 01/16/2003
 Received Date

Minnesota Statutes Chapter 1031

Well Name MANKATO CITIZENS TELE. Township Range Dir Section Subsections Elevation 792 ft. 108 26 W 18 BACACB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 55 ft. Depth Completed 55 ft. Date Well Completed 11/11/1996 Drilling Method Cable Tool																								
Well Address 215 HICKORY ST E MANKATO MN Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>PIT</td> <td></td> <td>0</td> <td>13</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>13</td> <td>41</td> </tr> <tr> <td>SHALE</td> <td>GRAY</td> <td>41</td> <td>55</td> </tr> </tbody> </table>		Color	Hardness	From	To	PIT		0	13	SAND	BROWN	13	41	SHALE	GRAY	41	55	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Elevator Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. Casing Diameter 20 in. to 55 ft. Weight 78.6 lbs./ft. Hole Diameter Open Hole from ft. to ft. Screen Make Type <table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Static Water Level 23 ft. from Land surface Date Measured 11/11/1997 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	Diameter	Slot/Gauze	Length	Set Between				
Color	Hardness	From	To																							
PIT		0	13																							
SAND	BROWN	13	41																							
SHALE	GRAY	41	55																							
Diameter	Slot/Gauze	Length	Set Between																							
NO REMARKS Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date N/A System UTM - Nad83, Zone15, Meters X: 419866 Y: 4890596		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 53 to 55 ft. 3 bags Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																								
First Bedrock St.Lawrence Aquifer St.Lawrence Last Strat St.Lawrence Depth to Bedrock 41 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification <u>Midwest Drilling</u> <u>L0004</u> <u>FULTON, W.</u> License Business Name Lic. Or Reg. No. Name of Driller																								
County Well Index Online Report		587207 Printed 6/27/2008 HE-01205-07																								

SITE SUMMARY

Site Name: Marshall

Fire Department: Marshall Fire Department
201 E. Saratoga
Marshall, MN 56258

Site Contact: Marc Klaith, Fire Chief
507-532-5141
marshallfire@iw.net

Training Location: Marshall Merrit Center, County Road 33 (1001 W. Erie Road),
Marshall

Type of foam used in training: AR-AFFF: 3M, use in training not specified
Training foam: Trainol

Foam training frequency: Quarterly

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: not specified
Class A: not specified
Training foam: 15 gallons

Nearest surface water: On or adjacent to site

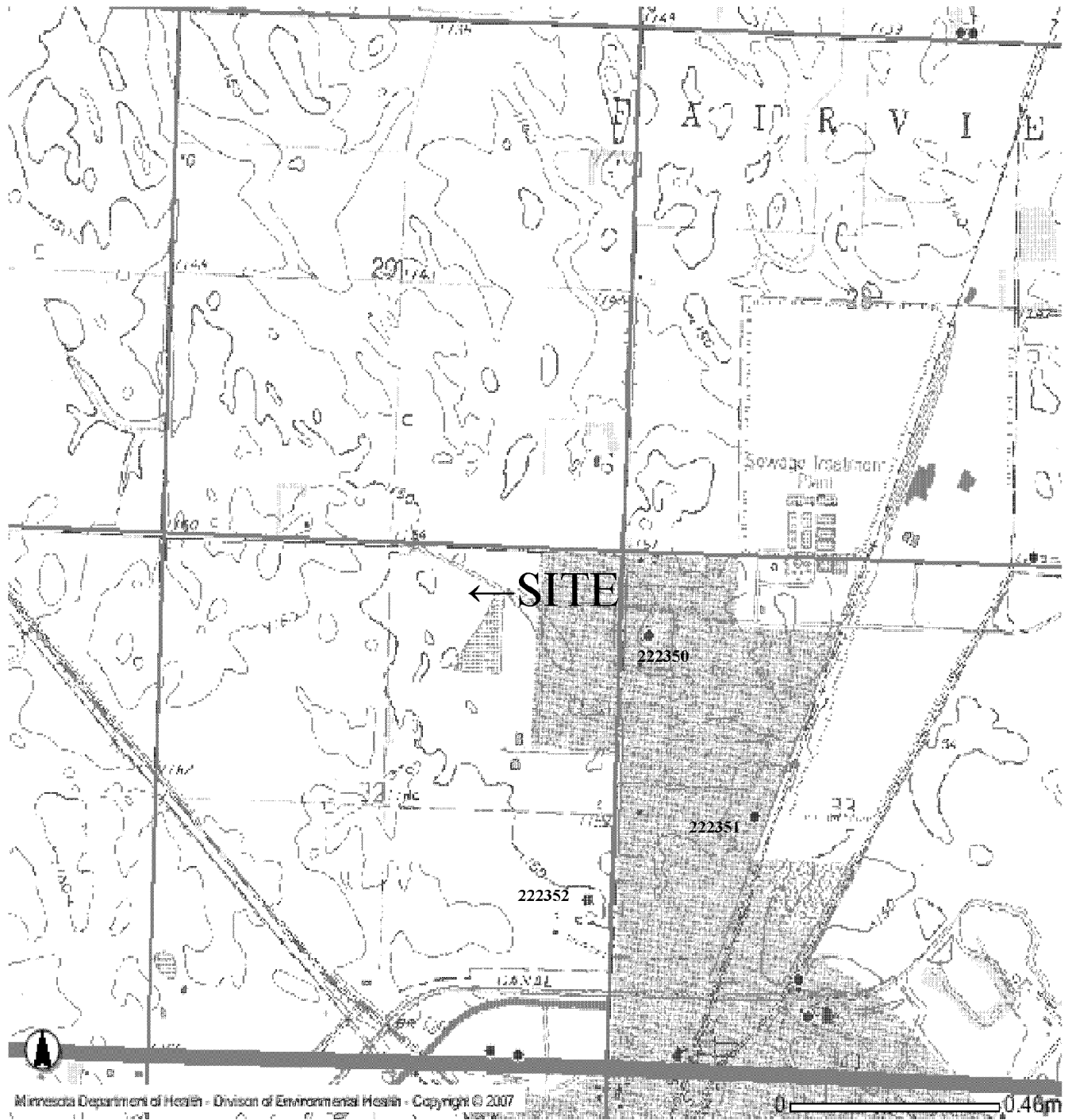
Nearest wetland: On or adjacent to site

Nearest water well: 1/4 to 1/2 mile east

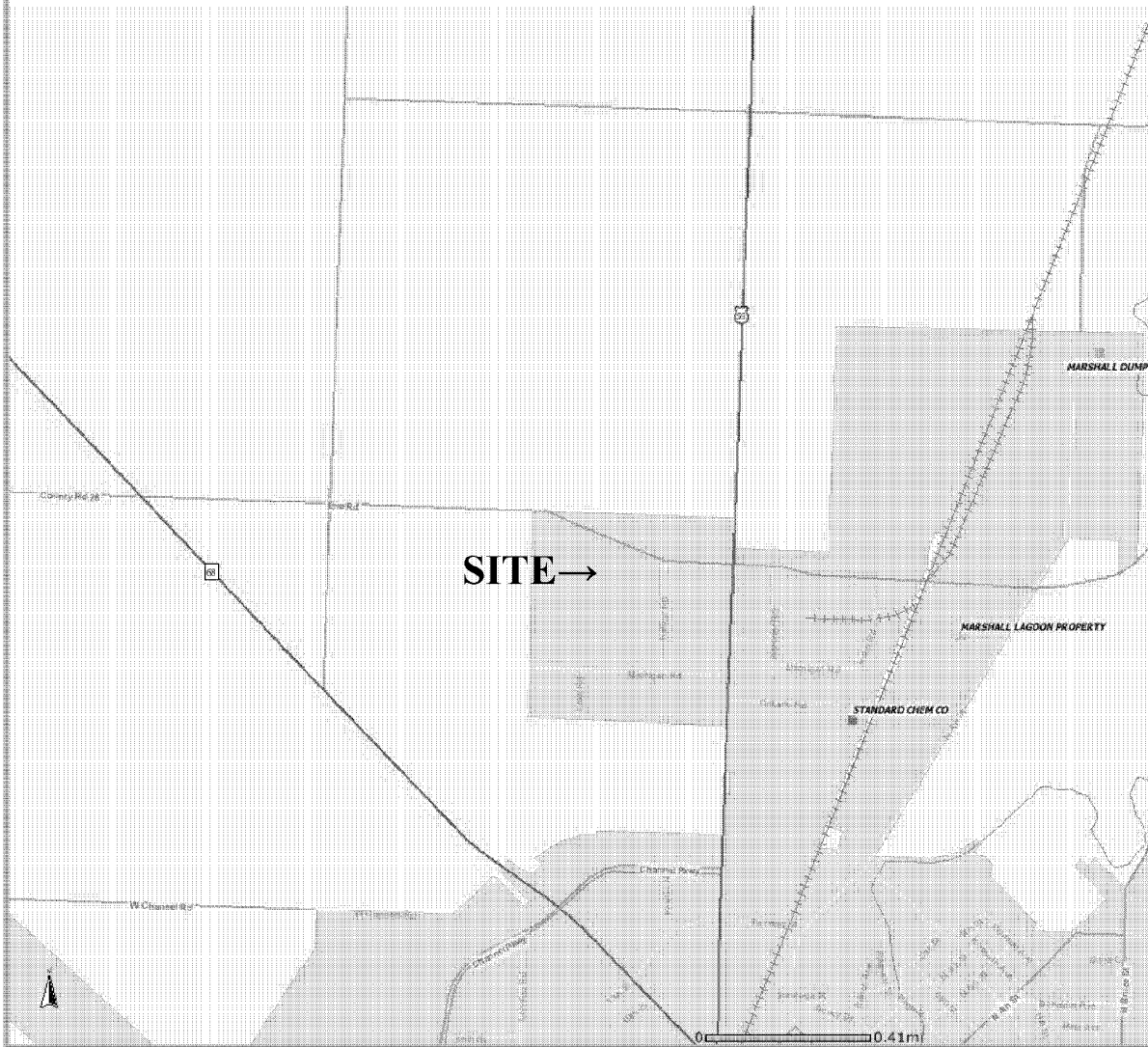
Nearest Wellhead Protection Area: More than 1 mle

SITE RANKING: 21

MARSHALL CWI Well Map



Marshall What's In My Neighborhood Map

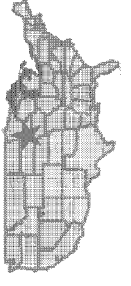
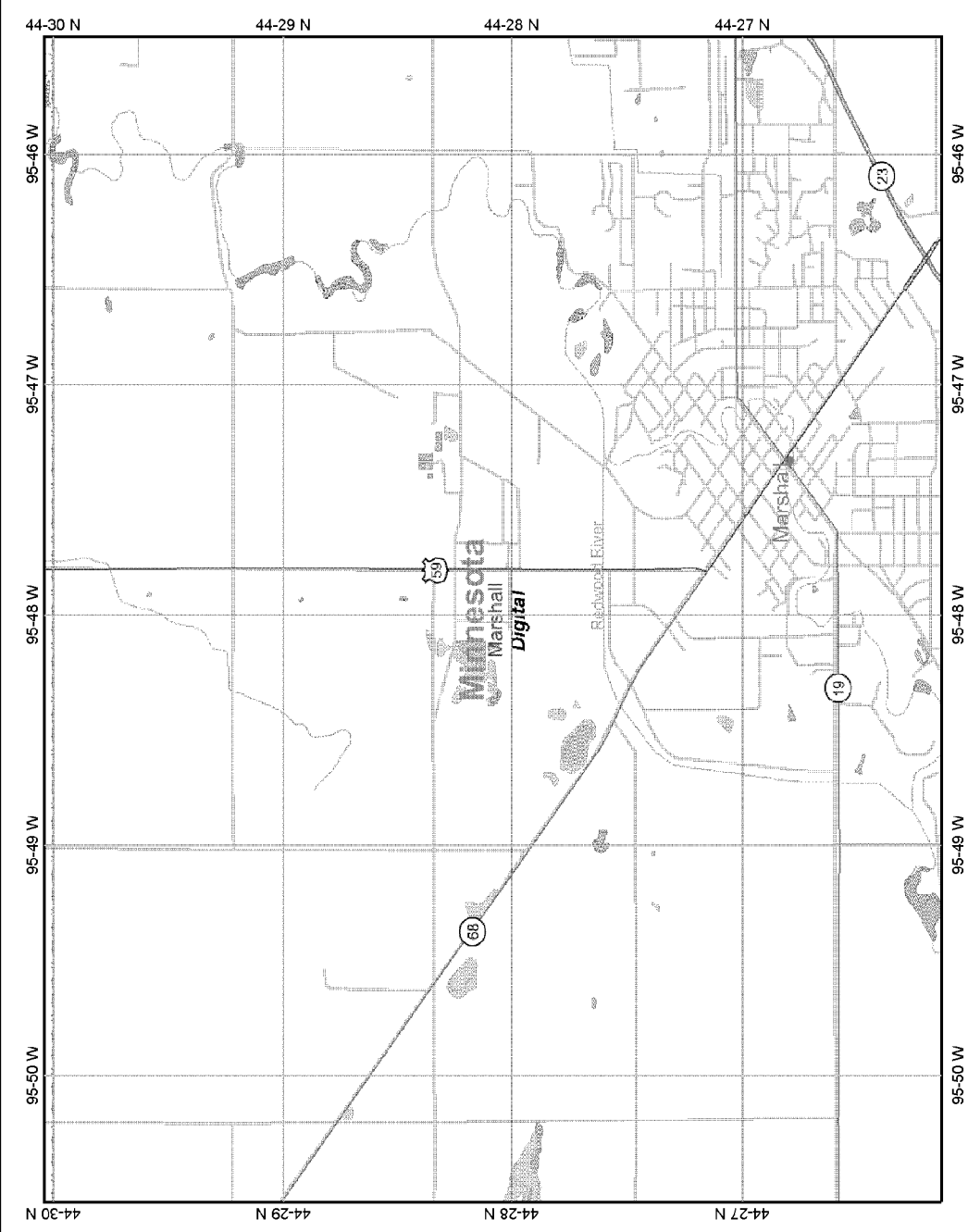


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Marshall Wetland Map



Legend

- Interstate
- Major Road
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:50,563

Map center: 44° 28' 5" N, 95° 48' 1" W

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Minnesota Unique Well No.

222350

County Lyon
 Quad Marshall
 Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 10/24/1992
 Received Date

Minnesota Statutes Chapter 103I

Well Name HAHM, TIM		Well Depth	Depth Completed	Date Well Completed		
Township Range Dir Section Subsections Elevation		114 ft.	114 ft.	00/00/1956		
112	41 W 33 BBCBDA Elevation Method	Drilling Method --				
7.5 minute topographic map (+/- 5 feet)						
Geological Material TOPSOIL & CLAY SANDY CLAY CLAY FINE SAND & CLAY WATER BEARING CLAY (FEW PEBBLES)		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		--	From Ft. to Ft.			
		Use Domestic				
		Casing Type		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below 0 ft.				
		Casing Diameter		Weight	Hole Diameter	
		0 in. to 67 ft.		lbs./ft.		
		Open Hole from ft. to ft.				
		Screen YES Make Type				
		Diameter		Slot/Gauze	Length	Set Between
Static Water Level		ft. from Date Measured				
PUMPING LEVEL (below land surface)						
ft. after hrs. pumping g.p.m.						
Well Head Completion						
Pitless adapter manufacturer Model						
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade						
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 277655 Y: 4927863		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination				
		_feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed						
Manufacturer's name Model number __ HP 0 Volts						
Length of drop Pipe _ft. Capacity _g.p.m. Type Material						
Abandoned Wells Does property have any not in use and not sealed well(s)?						
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes						
<input type="checkbox"/> No						
Well Contractor Certification						
First Bedrock		United States Geological Survey USGS				
Last Strat Pebbly sand/silt/clay		License Business Name Lic. Or Reg. No. Name of Driller				
Aquifer Quaternary Undiff.						
Depth to Bedrock ft.						
County Well Index Online Report		222350		Printed 6/27/2008 HE-01205-07		

Minnesota Unique Well No.

222351

County Lyon
 Quad Marshall
 Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
 Update Date 10/24/1992
 Received Date

Well Name ALFALFA PELLET PLANT Township Range Dir Section Subsections Elevation 1152 ft. 112 41 W 33 BDCCDD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 86 ft.	Depth Completed 86 ft.	Date Well Completed 00/00/1963	
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic				Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			
Well Address MARSHALL MN 56258				Casing Diameter 5 in. to 84 ft.	Weight lbs./ft.	Hole Diameter	
Geological Material CLAY SAND SOUPY SHALE THIN LAYER SANDSTONE & FINE SAND				Color YELLOW GRAY GREEN	Hardness	From To 0 18 18 66 66 85 85 86	
Open Hole from ft. to ft.				Screen Make Type			
Static Water Level ft. from Date Measured				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
NO REMARKS				Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 278029 Y: 4927304				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ft. Capacity __g.p.m. Type Material			
First Bedrock Cretaceous,Undiff. Aquifer Cretaceous,Undiff. Last Strat Cretaceous,Undiff. Depth to Bedrock 66 ft.				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification Minett Well Drilling 59234 License Business Name Lic. Or Reg. No. Name of Driller				Printed 6/27/2008 HE-01205-07			

Minnesota Unique Well No.

222352

County Lyon
 Quad Marshall
 Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
 Update Date 10/24/1992
 Received Date

Well Name SONSTEGARD, GOODWIN Township Range Dir Section Subsections Elevation 1151 ft. 112 41 W 32 DADACA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 76 ft. Depth Completed 76 ft. Date Well Completed 00/00/1974
Well Address MARSHALL MN 56258		Drilling Method Cable Tool Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material CLAY & ROCKS CLAY TO SHALE LAYERS OF FINE SAND & SHALE WATER, FINE SAND		Use Domestic Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft. Casing Diameter 6 in. to 76 ft. Weight lbs./ft. Hole Diameter
Color YELLOW GRAY TAN GREEN		Hardness 0 25 25 60 60 75 75 76
From To 0 25 25 60 60 75 75 76		Open Hole from ft. to ft. Screen Make Type Diameter Slot/Gauze Length Set Between
Static Water Level 20 ft. from Land surface Date Measured 1974		PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 5 g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
NO REMARKS		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Name Date N/A on mailbox System UTM - Nad83, Zone15, Meters X: 277440 Y: 4927045		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
First Bedrock Cretaceous,Undiff. Aquifer Cretaceous,Undiff. Last Strat Cretaceous,Undiff. Depth to Bedrock 60 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
County Well Index Online Report		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification <u>Minnett Well Drilling</u> <u>59234</u> <u>MINETT, C.</u> License Business Name Lic. Or Reg. No. Name of Driller

222352

Printed 6/27/2008
 HE-01205-07

SITE SUMMARY

Site Name: Maynard

Fire Department: Maynard Fire Department
PO Box 154
Maynard, MN 56260

Site Contact: Steven Lindquist, Fire Chief
320-367-2140

Training Location: Mable Street and Sherman, Maynard

Type of foam used in training: Other: Chemguard, historical use, type AFFF assumed
Class A: Silv-ex, current use

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: Other: not specified
Class A: not specified

Nearest surface water: Unidentified creek approximately 1/4 mile west

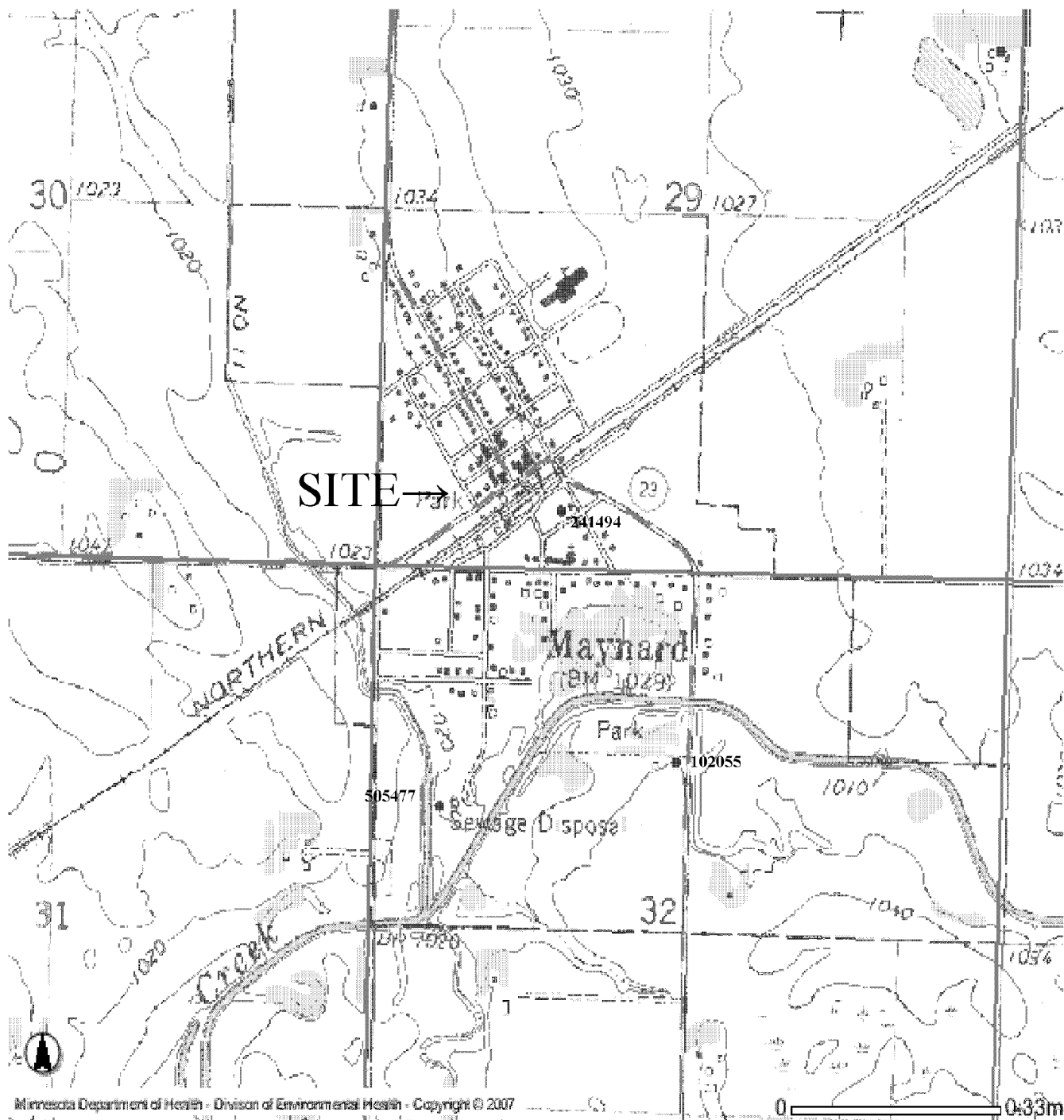
Nearest wetland: 1/4 to 1/2 mile southeast

Nearest water well: Less than 1/4 mile east

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 7

MAYNARD CWI Well Map



Maynard *What's In My Neighborhood* Map

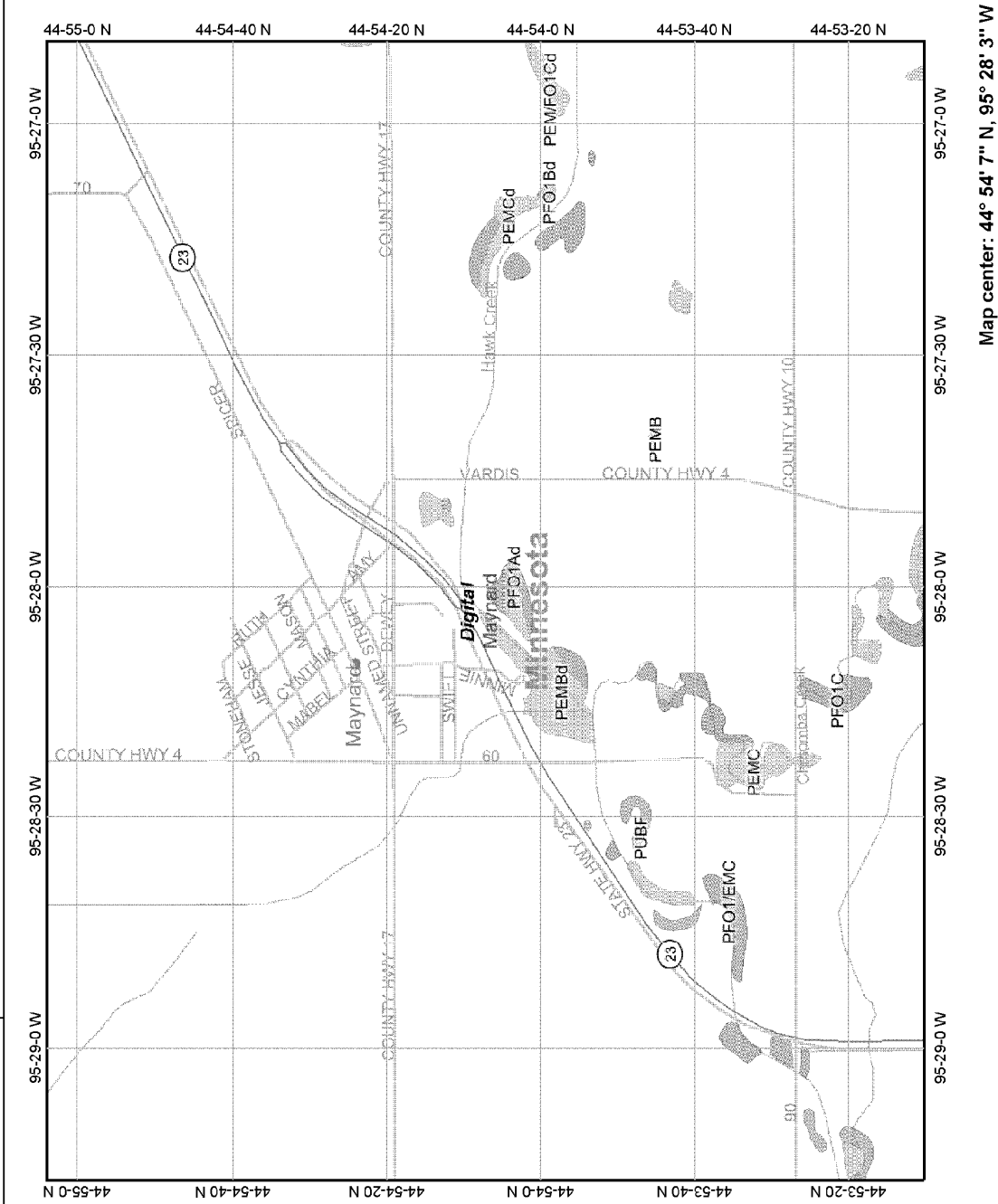


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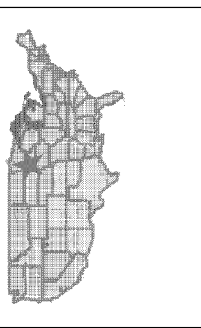
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Maynard Wetland Map



Map center: 44° 54' 7" N, 95° 28' 3" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,601

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Minnesota Unique Well No.

102055

County Chippewa
 Quad Maynard
 Quad ID 112B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/07/1988
 Update Date 03/06/1997
 Received Date

Well Name AEIKENS, MRS. HENRY Township Range Dir Section Subsections Elevation 1030 ft. 117 38 W 32 BDAAAB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 98 ft.	Depth Completed 94 ft.	Date Well Completed 00/00/1976																																				
				Drilling Method Non-specified Rotary																																						
Well Address MAYNARD MN 56260 Geological Material <table style="width:100%; border:none;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>DIRT</td><td>BLACK</td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td>2</td><td>15</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>15</td><td>16</td></tr> <tr><td>SANDY CLAY</td><td>GRN/BLU</td><td>16</td><td>28</td></tr> <tr><td>SANDY CLAY</td><td>BLUE</td><td>28</td><td>70</td></tr> <tr><td>FINE SAND W/CLAY LAYERS</td><td></td><td>70</td><td>90</td></tr> <tr><td>SAND</td><td></td><td>90</td><td>94</td></tr> <tr><td>SANDY CLAY</td><td>BLUE</td><td>94</td><td>98</td></tr> </tbody> </table>				Color	Hardness	From	To	DIRT	BLACK	0	2	CLAY	YELLOW	2	15	CLAY	BLUE	15	16	SANDY CLAY	GRN/BLU	16	28	SANDY CLAY	BLUE	28	70	FINE SAND W/CLAY LAYERS		70	90	SAND		90	94	SANDY CLAY	BLUE	94	98	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
				Color	Hardness	From	To																																			
				DIRT	BLACK	0	2																																			
				CLAY	YELLOW	2	15																																			
				CLAY	BLUE	15	16																																			
				SANDY CLAY	GRN/BLU	16	28																																			
				SANDY CLAY	BLUE	28	70																																			
				FINE SAND W/CLAY LAYERS		70	90																																			
				SAND		90	94																																			
				SANDY CLAY	BLUE	94	98																																			
Use Domestic																																										
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 0 ft.																																										
Casing Diameter 5 in. to 89 ft.		Weight lbs./ft.	Hole Diameter																																							
Open Hole from ft. to ft.																																										
Screen YES Make HOWARD SMITH Type stainless steel																																										
Diameter 4	Slot/Gauze 20	Length 0	Set Between 89 ft. and 94 ft.																																							
Static Water Level ft. from Date Measured																																										
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																										
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																										
NO REMARKS				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																						
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 150 feet N direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
Unique Number Verification Information from neighbor		Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 03/30/1976 Manufacturer's name BURKS Model number 5SN8B HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m. Type Submersible Material Plastic																																						
System UTM - Nad83, Zone15, Meters		X: 305527 Y: 4974951		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
First Bedrock				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																						
Last Strat Clay & sand-gray		Aquifer Quat. Buried Artes. Aquifer		Well Contractor Certification Thein S.e. Well Co. 12013 WEIS, M. License Business Name Lic. Or Reg. No. Name of Driller																																						
Depth to Bedrock ft.		County Well Index Online Report			102055																																					
				Printed 6/27/2008 HE-01205-07																																						

Minnesota Unique Well No.

241494

County Chippewa
 Quad Maynard
 Quad ID 112B

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103f

Entry Date 09/17/1992
 Update Date 05/06/2005
 Received Date

Well Name MAYNARD 2 Township Range Dir Section Subsections Elevation 1026 ft. 117 38 W 29 Calc from DEM (USGS 7.5 min or equiv.) Elevation Method		Well Depth 87 ft. Depth Completed 87 ft. Date Well Completed 00/00/1951 Drilling Method Cable Tool
Well Address MAYNARD MN 56260		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material NO RECORD		Use Abandoned Status Sealed Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
Color Hardness From 0 To 87	Casing Diameter 12 in. to ft. Weight lbs./ft. Hole Diameter	
Open Hole from ft. to ft. Screen Make Type	Diameter Slot/Gauze Length Set Between	
Static Water Level ft. from Date Measured		
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS WELL SEALED 06-04-2004 BY 34625 ORIGINAL USE PC - COMMUNITY SUPPLY		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Department of Health Unique Number Verification N/A System UTM - Nad83, Zone 15, Meters		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Method GPS SA On (averaged) Date N/A X: 305234 Y: 4975514		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Submersible Material

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>Minnesota Department of Health <u>MDH</u></p>	
<p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>241494</p>	<p>Printed 6/27/2008 HE-01205-07</p>

First Bedrock Aquifer Quat. Buried Artes. Aquifer
Last Strat Unknown deposit type
Depth to Bedrock ft.

County Well Index Online Report

Minnesota Unique Well No.

505477

County Chippewa
 Quad Maynard
 Quad ID 112B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 01/28/1991
 Update Date 03/06/1997
 Received Date

Minnesota Statutes Chapter 103I

Well Name WASTE WATER TRIMNT PLANT		Well Depth 1022 ft.	Depth Completed 86 ft.	Date Well Completed 07/12/1989
Township Range Dir Section Subsections Elevation 117 38 W 32 BCBDAD		7.5 minute topographic map (+/- 5 feet)	Drilling Method Non-specified Rotary	
Elevation Method		Drilling Fluid Bentonite		
Well Address MAYNARD MN 56260		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material		Use Domestic		
Color		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.		
Hardness		Casing Diameter 6 in. to 66 ft. Weight lbs./ft. Hole Diameter 10 in. to 86 ft.		
From		Open Hole from ft. to ft.		
To		Screen YES Make JOHNSON Type stainless steel		
LOAM BLACK 0 2		Diameter 6 Slot/Gauze 12 Length 20 Set Between 66 ft. and 86 ft.		
CLAY TAN MEDIUM 2 24		Static Water Level 7 ft. from Land surface Date Measured 07/12/1989		
CLAY RED HARD 24 26		PUMPING LEVEL (below land surface) 30 ft. after hrs. pumping 200 g.p.m.		
CLAY BLU/GRY MEDIUM 26 29		Well Head Completion Pitless adapter manufacturer MAASS Model 6J2		
GRAVEL BROWN 29 30		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
CLAY BLU/GRY HARD 30 41		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
SAND TAN 41 52		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
CLAY BLUE 52 62		Grout Material: Neat Cement from 0 to 66 ft. 2 yds.		
SAND 62 86		Nearest Known Source of Contamination 175 feet W direction Body of water type		
REMARKS SCREEN: TOP 12-12-12-18 BOTTOM.		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/18/1989		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Manufacturer's name A.Y. MCDONALD Model number K50		
Unique Number		HP 0.5 Volts 230		
Verification Information from owner		Length of drop Pipe 42 ft. Capacity 10 g.p.m		
Date N/A		Type Submersible Material Galvanized		
System UTM - Nad83, Zone15, Meters		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
X: 304923 Y: 4974854		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock		Well Contractor Certification		
Aquifer Quat. Buried Artes. Aquifer		Steffl M.j. Well Co 34480 STEFFL, M.		
Last Strat Sand		License Business Name Lic. Or Reg. No. Name of Driller		
Depth to Bedrock ft.				

County Well Index Online Report	505477	Printed 6/27/2008 HE-01205-07
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SITE SUMMARY

Site Name: Minneapolis

Fire Department: Minneapolis Fire Department
Room 230, City Hall
Minneapolis, MN 55415

Site Contact: Walt Lee, Captain, Engineering Officer, Fire
350 S. 5th Street, Room 230
Minneapolis, MN 55415
612-673-2059 office
612-718-1859 cell
walter.lee@ci.minneapolis.mn.us

Training Location: 25 37th Avenue NE, Minneapolis

Type of foam used in training: AFFF: 3M
Class A: Ansul

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: approximately 5 gallons
AR-AFFF: not specified
Class A: approximately 5 gallons

Nearest surface water: Mississippi River less than 1/4 mile west

Nearest wetland: 1/4 to 1/2 mile west

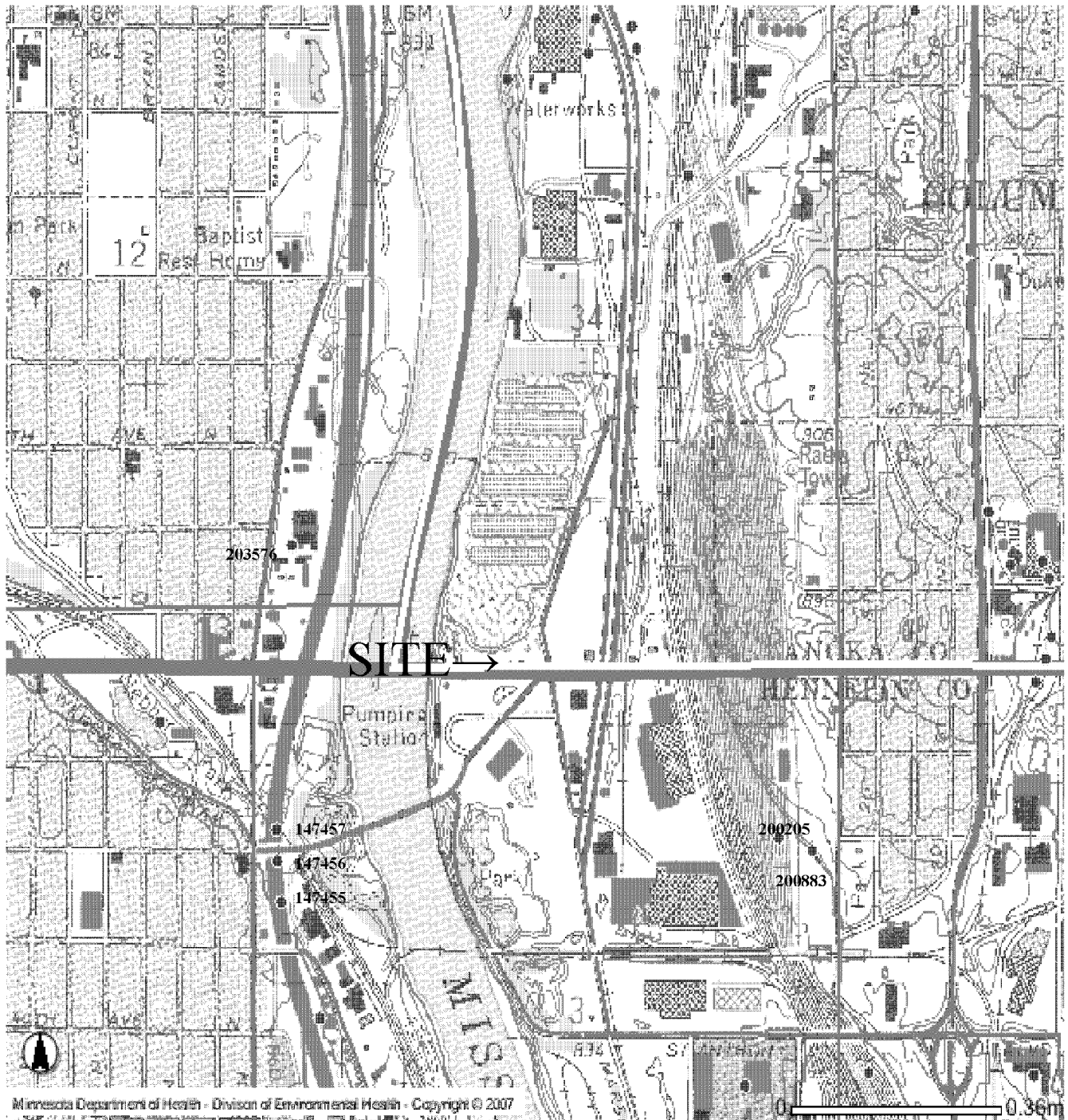
Karst Area: Training site is located in a transition or covered karst area

Nearest water well: Approximately 1/2 mile southeast

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 19

MINNEAPOLIS CWI Well Map



Minneapolis What's In My Neighborhood Map

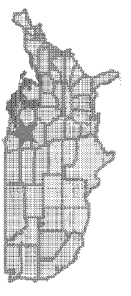
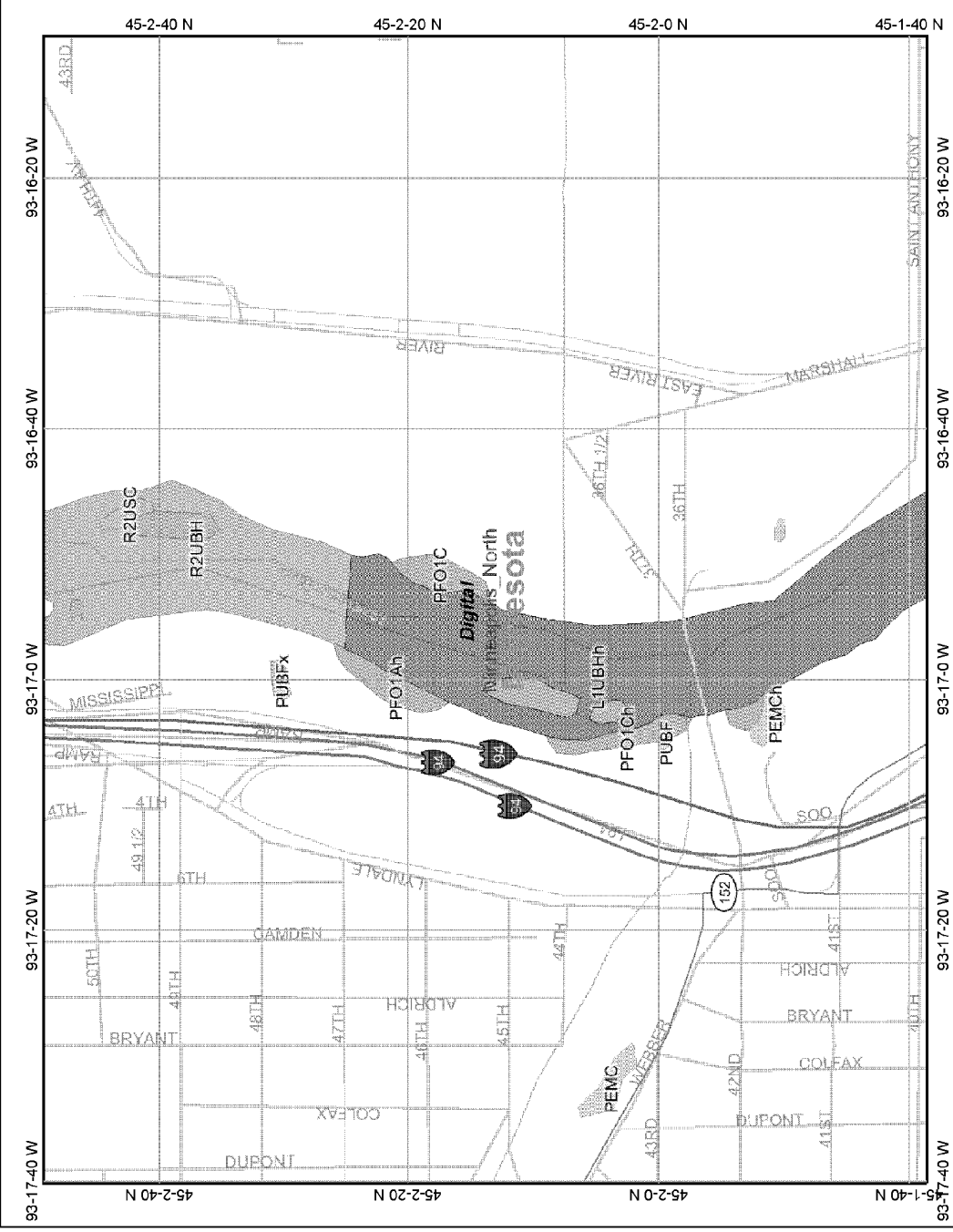


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 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minneapolis Wetland Map



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
 - Other Road
 - Interstate
 - State highway
 - US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
 - South America
 - North America

Scale: 1:15,236

Map center: 45° 2' 14" N, 93° 16' 54" W

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County Well Index Online Report	147455	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

147456

County Hennepin
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name M.D.O.T. WELL B		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		70 ft.	70 ft.	10/05/1982
29	24 W 3 BCBBAD	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Well Address		Drilling Fluid		
MINNEAPOLIS MN		--		
Geological Material		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
ST PETER SANDSTONE	Color	Hardness	From	To
			0	70
REMARKS		Use Other (specify in remarks)		
CASING: 24 TO 17; 16 TO 35. WELL SEALED AFTER PROJECT.		Casing Type <input type="checkbox"/> Joint No Information <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Open Hole from ft. to ft.		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Screen YES <input type="checkbox"/> Make JOHNSON Type stainless steel		
Unique Number		Diameter 16		
Verification Information from owner		Slot/Gauze 35		
Date N/A		Length 35		
System UTM - Nad83, Zone15, Meters		Set Between 35 ft and 70 ft.		
X: 477372 Y: 4986461		Static Water Level		
		12 ft. from Land surface Date Measured 10/05/1982		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number ___ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock St.Peter		Layne Well Co. 27010		
Aquifer St.Peter		License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat St.Peter		Depth to Bedrock ft.		

County Well Index Online Report	147456	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

147457

County Hennepin
 Quad Minneapolis North
 Quad ID 120D

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name M.D.O.T. WELL C Township Range Dir Section Subsections Elevation 836 ft. 29 24 W 3 BBCCCA Elevation Method 7.5 minute topographic map (+/- 5 feet)	Well Depth 70 ft.	Depth Completed 70 ft.	Date Well Completed 10/05/1982
Drilling Method --			

Well Address MINNEAPOLIS MN Geological Material ST. PETER SANDSTONE Color Hardness From 0 To 70	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
	Use Other (specify in remarks)				
	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.				
	Casing Diameter		Weight	Hole Diameter	
	24 in. to 17 ft.		lbs./ft.		
	16 in. to 35 ft.		lbs./ft.		
	Open Hole from ft. to ft.				
	Screen YES Make JOHNSON Type stainless steel				
	Diameter		Slot/Gauze	Length	Set Between
	16			35	35 ft. and 70 ft.
Static Water Level 12 ft. from Land surface Date Measured 10/05/1982					
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.					
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					

REMARKS CASING: 24 TO 17; 16 TO 35. WELL SEALED AFTER PROJECT. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 477370 Y: 4986537	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material
---	--

First Bedrock St.Peter Aquifer St.Peter Last Strat St.Peter Depth to Bedrock ft.	Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Layne Well Co. 27010 License Business Name Lic. Or Reg. No. Name of Driller
---	--

County Well Index Online Report	147457	Printed 6/27/2008 HE-01205-07
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Minnesota Unique Well No.

200205

County Hennepin
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name NORTHTOWN 2		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		619 ft.	619 ft.	05/00/1913
29	24 W 3 AADCCA	Elevation Method topographic map (+/- 5 feet)		
Drilling Method --		Drilling Fluid --		
Well Address		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
MINNEAPOLIS MN		From Ft. to Ft.		
Geological Material		Use Industrial		
CINDERS FILL	Color	Hardness	From	To
SAND			0	1
SOAPSTONE AND LIMESTONE			1	7
ST. PETER SANDSTONE			7	8
SHALE			8	80
ST. PETER SANDSTONE		HARD	80	125
SANDSTONE AND SHALE	BROWN		125	175
LIMESTONE AND SANDSTONE			175	187
SHALE AND SANDSTONE			187	270
SANDSTONE			270	525
SHALE AND SANDSTONE			525	605
			605	619
REMARKS		Static Water Level		
CASING: 010 TO 0080;008 TO 0195.		10 ft. from Land surface Date Measured 05/00/1913		
Located Minnesota Geological Survey		PUMPING LEVEL (below land surface)		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		ft. after hrs. pumping g.p.m.		
Unique Number Verification N/A Date N/A		Well Head Completion		
System UTM - Nad83, Zone15, Meters		Pitless adapter manufacturer Model		
X: 478750 Y: 4986516		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Nearest Known Source of Contamination		
		_feet _direction _type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Platteville		License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Cambrian,Undifferentiated				
Aquifer Multiple				
Depth to Bedrock 7 ft.				
County Well Index Online Report		200205		Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.

200883

County Hennepin
 Quad Minneapolis North
 Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name NORTHTOWN LOCOMOTIVE SUP				Well Depth 978 ft.		Depth Completed 978 ft.		Date Well Completed 11/01/1946	
Township Range Dir Section Subsections Elevation 29 24 W 3 AADD CD Elevation Method topographic map (-/- 5 feet)									
Well Address MINNEAPOLIS MN				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Use Industrial					
Geological Material				Color		Hardness		From To	
SAND								0 8	
PLATTEVILLE LIMESTONE AND CLAY								8 22	
ST PETER SANDSTONE								22 97	
ST PETER SANDSTONE								97 170	
SHAKOPEE-ONEOTA LIMESTONE								170 290	
JORDAN SANDSTONE								290 370	
SANDY CLAY				WHITE				370 521	
CLAY				GREEN				521 535	
SHALE AND FINE SAND								535 600	
VERY FINE SAND AND CLAY								600 616	
CLAY AND SHALE				BLUE				616 638	
CLAY				GRAY				638 650	
CLAY				GREEN				650 657	
SHALE								657 666	
SAND AND SHALE								666 694	
SANDSTONE AND SHALE								694 758	
SANDSTONE				WHITE				758 768	
SAND AND SHALE								768 782	
SANDSTONE								782 794	
FINE SANDSTONE								794 815	
MT. SIMON SANDSTONE								815 823	
SANDSTONE				BROWN				823 837	
SANDSTONE				PINK				837 844	
COARSE SANDSTONE				PINK				844 848	
VERY FINE SANDSTONE				PINK				848 850	
SANDY CLAY				RED				850 940	
QUARTZ GRIT				WHITE				940 959	
CLAY				RED				959 960	
VERY STICKY CLAY						HARD		960 978	
REMARKS CASING: 018 TO 0097;010 TO 0844.									
Located Minnesota Geological Survey				Method Digitized - scale 1:24,000 or larger (Digitizing Table)					
Unique Number Verification N/A				Date N/A					
System UTM - Nad83, Zone15, Meters				X: 478842		Y: 4986485			
				Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Nearest Known Source of Contamination		_feet _direction _type			
						Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Pump		<input type="checkbox"/> Not Installed Date Installed			
				Manufacturer's name		Model number		HP 0 Volts	
				Length of drop Pipe _ft.		Capacity _g.p.m		Type Material	
				Abandoned Wells		Does property have any not in use and not sealed well(s)? <input type="checkbox"/>			
				Yes <input type="checkbox"/> No					
				Variance		Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/>			
				No					
				Well Contractor Certification		Layne Well Co. 27010			
First Bedrock Platteville				Aquifer Multiple					
Last Strat Mid.Proterozoic Sedimentary				Depth to Bedrock 8 ft.		License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	200883	Printed 6/27/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Minnesota Unique Well No.

203576

County Hennepin
Quad Minneapolis North
Quad ID 120D

*Minnesota Statutes Chapter
1031*

Well Name W. BARNES		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		315 ft.	315 ft.	
118	21 W 12 DCCADB	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use				
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No				
No Above/Below 0 ft.				
Casing Diameter		Weight	Hole Diameter	
4 in. to ft.		lbs./ft.		
Open Hole from ft. to 315 ft.				
Geological Material		Color	Hardness	From To
TOP SOIL				0 9
CLAY		BLUE		9 32
GRAVEL				32 53
ST. PETER				53 82
SHALE				82 88
ST. PETER				88 146
DOLOMITE				146 271
JORDAN				271 315
Well Address		Screen NO Make Type		
4558 LYNDALE AV N		Diameter Slot/Gauze Length Set Between		
MINNEAPOLIS MN				
Static Water Level				
ft. from Date Measured				
PUMPING LEVEL (below land surface)				
0 ft. after hrs. pumping 150 g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input checked="" type="checkbox"/> Not Installed Date Installed				
Manufacturer's name DEMING Model number __ HP 0 Volts				
Length of drop Pipe _ft. Capacity _g.p.m. Type Material				
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/>				
Yes <input type="checkbox"/> No				
REMARKS				
P.A.85-6194.				
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				
Unique Number Date N/A				
Verification N/A				
System UTM - Nad83, Zone15, Meters X: 477412 Y: 4987222				

First Bedrock St.Peter Last Strat Jordan	Aquifer Multiple Depth to Bedrock 53 ft.	Well Contractor Certification <u>Renner Max Well Co.</u> <u>27246</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	203576	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name: Montevideo

Fire Department: Montevideo Fire Department
PO Box 517
Montevideo, MN 56265

Site Contact: Robb Gilkey
firedept@montevideomn.org

Training Location: Fire station, 103 Canton Avenue, Montevideo

Type of foam used in training: AR-AFFF: 3M Light Water ATC 3%-6%
Class A: Ansul Silv-ex

Foam training frequency: "When we have a lot of foam"

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF (3M Light Water): 2 gallons
AR-AFFF (Ansulite 3x3): 0 gallons
Class A: approximately 1 gallon

Nearest surface water: Chippewa River less than 1/4 mile west

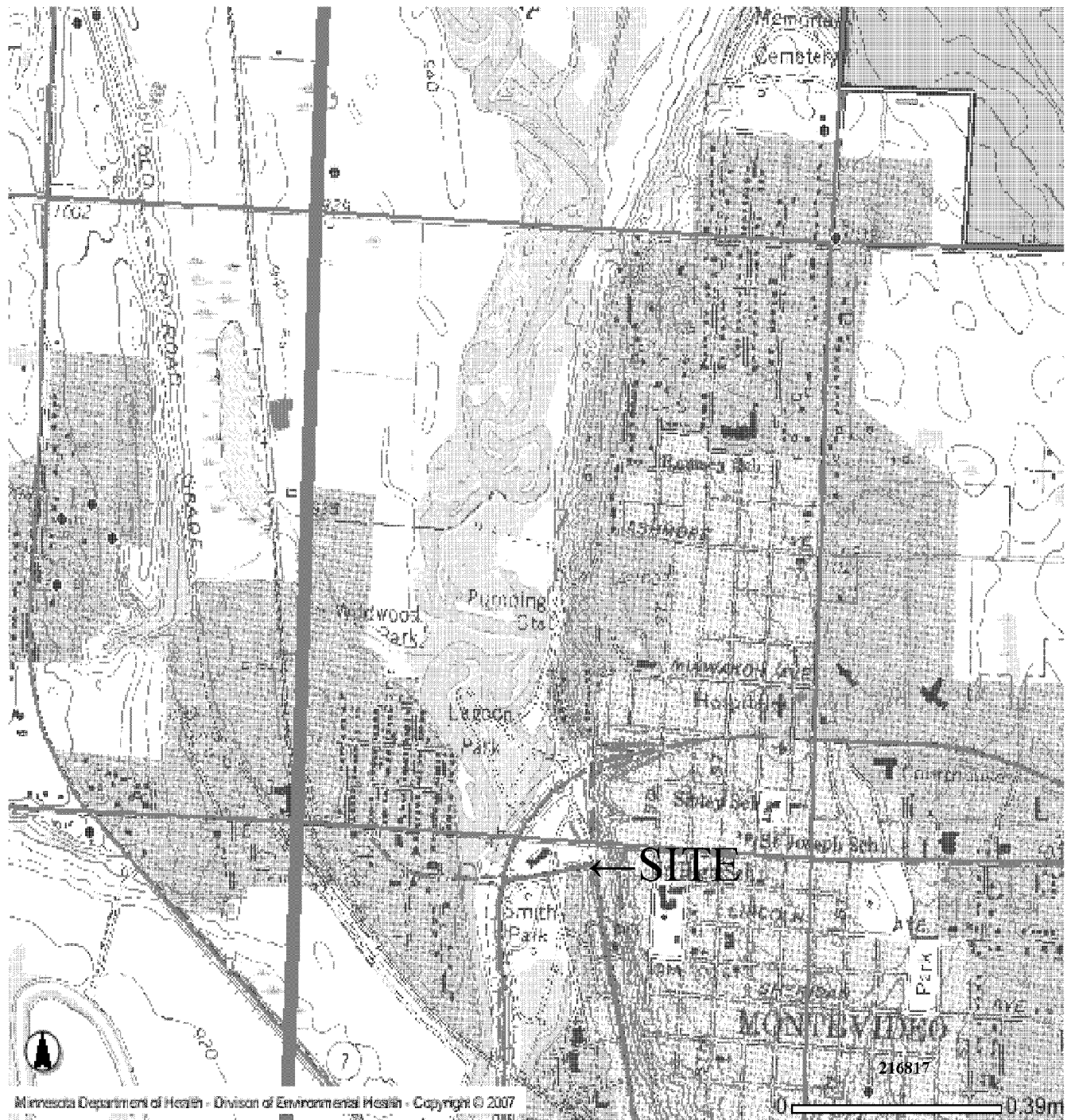
Nearest wetland: Less than 1/4 north

Nearest water well: 1/2 to 1 mile southeast

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 17

MONTEVIDEO CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Montevideo What's In My Neighborhood Map



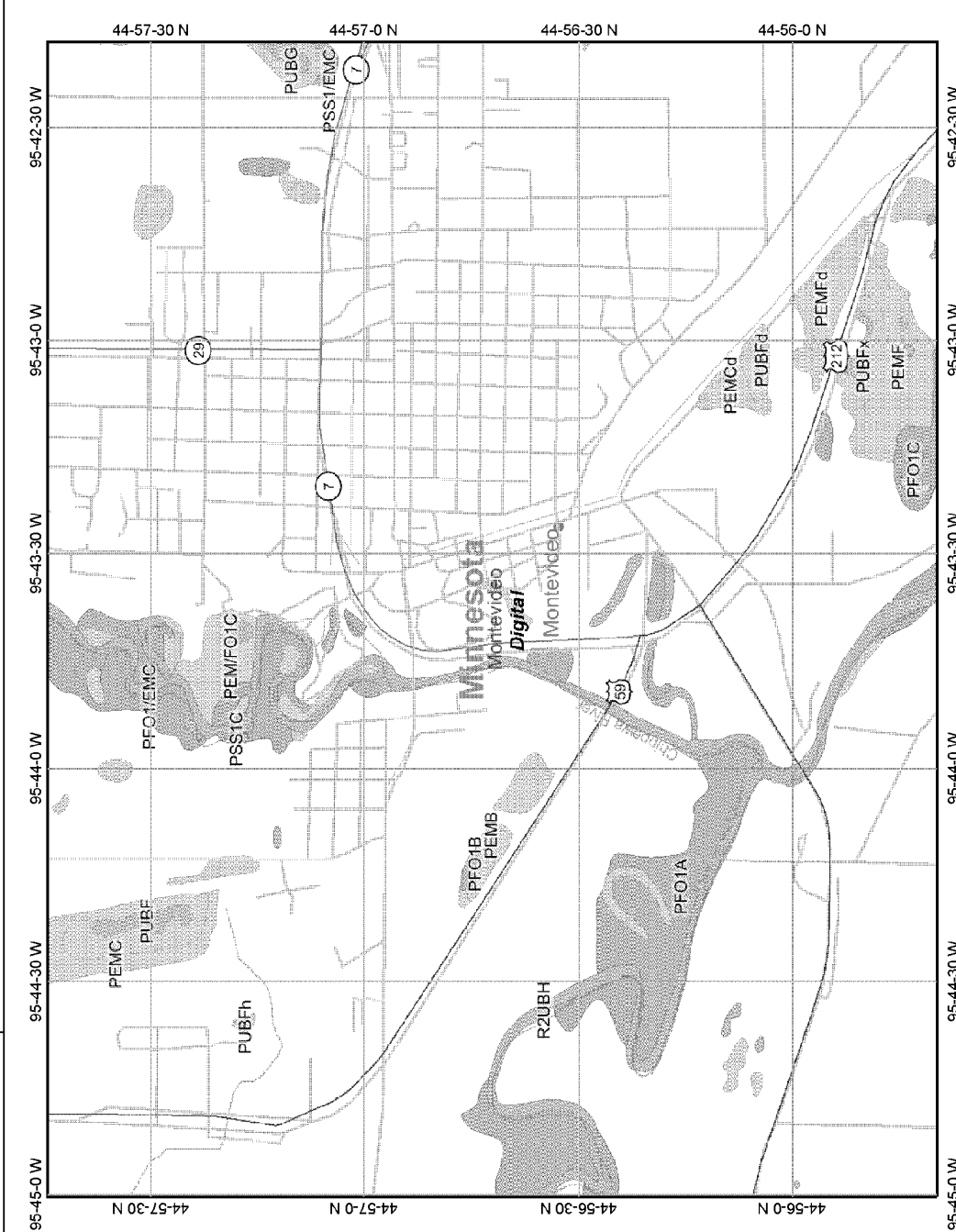
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 **Minnesota Pollution Control Agency**

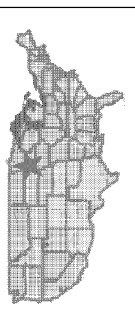
Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

Montevideo Wetland Map

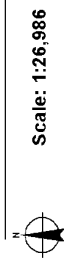


Map center: 44° 56' 42" N, 95° 43' 39" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:26,986

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Minnesota Unique Well No.

216817

County Chippewa
 Quad Montevideo
 Quad ID 113B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/07/1988
 Update Date 01/15/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name MONTEVIDEO TW		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		162 ft.	162 ft.	00/00/1943
117	40 W 17 BCBDDD	Elevation Method topographic map (+/- 5 feet)		
Drilling Method --		Drilling Fluid --		
Well Address		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
MONTEVIDEO MN 56265		From Ft. to Ft.		
Geological Material		Use Test well		
CLAY	Color BLUE	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
GRAVEL		No Above/Below ft.		
FINE SAND		Casing Diameter	Weight	Hole Diameter
CLAY	Color BLUE	Open Hole from ft. to ft.		
MEDIUM AND FINE SAND		Screen	Make	Type
CLAY	Color BLUE	Diameter	Slot/Gauze	Length
SOAPSTONE		Set Between		
CLAY	Color BLUE	Static Water Level		
GRANITE		ft. from Date Measured		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination		
Unique Number Date N/A		_feet _direction _type		
Verification Information from owner		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 285843 Y: 4980247		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP _ Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock Cretaceous Regolith		Minnesota Geological Survey MGS		
Last Strat Montevideo Gneiss		License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer		Depth to Bedrock 134 ft.		
County Well Index Online Report		216817		Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name: Myrtle

Fire Department: Myrtle Fire Department
Myrtle, MN 56070

Site Contact: Not provided

Training Location: Myrtle ball field

Type of foam used in training: Not specified, use of 3M AFFF assumed

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified

Nearest surface water: Intermittent stream located 1/2 to 3/4 mile west

Nearest wetland: More than 1 mile

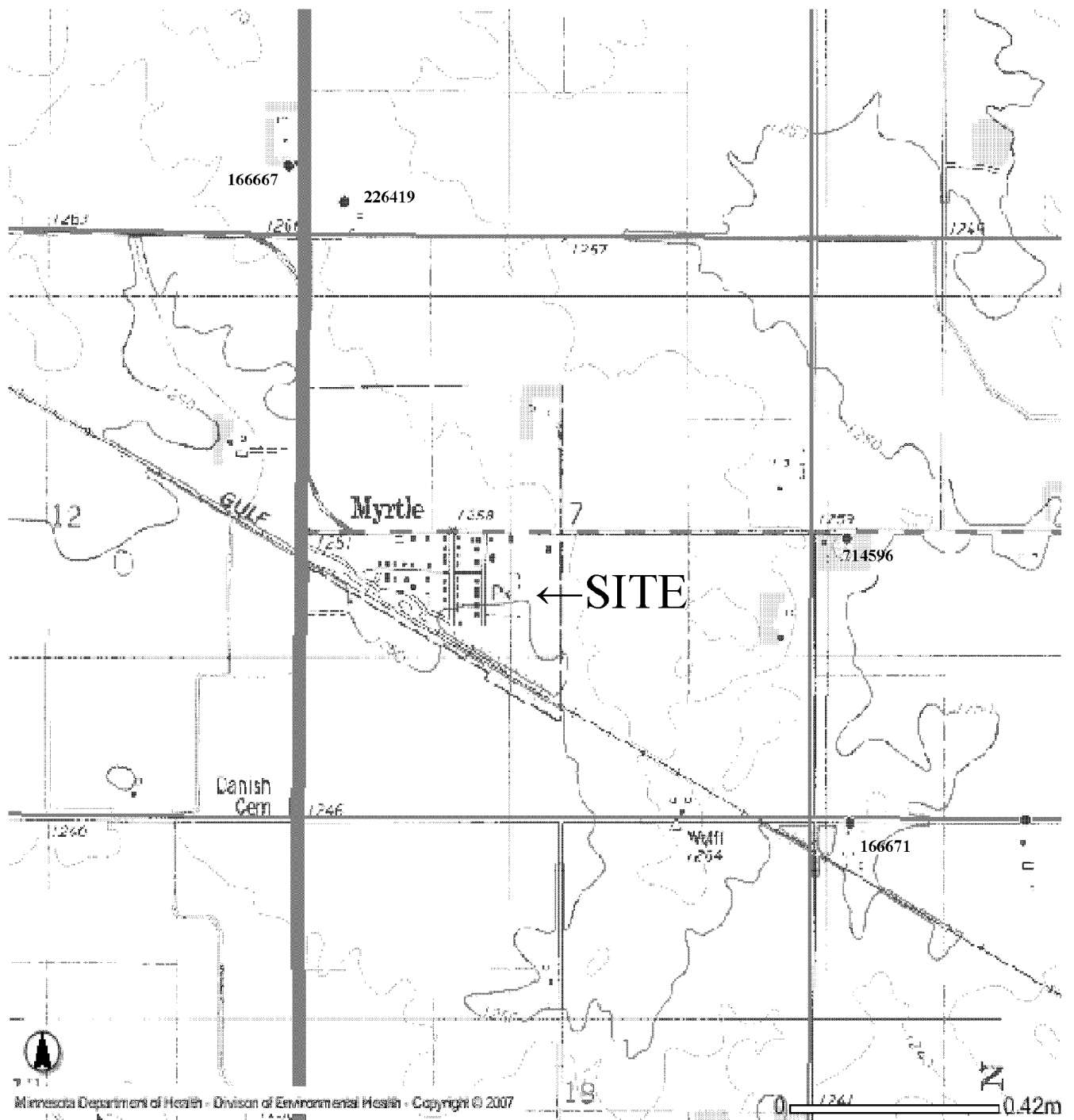
Karst Area: Training site appears to be located in an active karst area

Nearest water well: 1/2 to 3/4 mile east

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 17

MYRTLE CWI Well Map



Myrtle What's In My Neighborhood Map

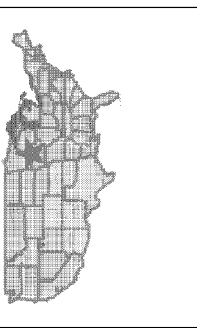


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - MFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

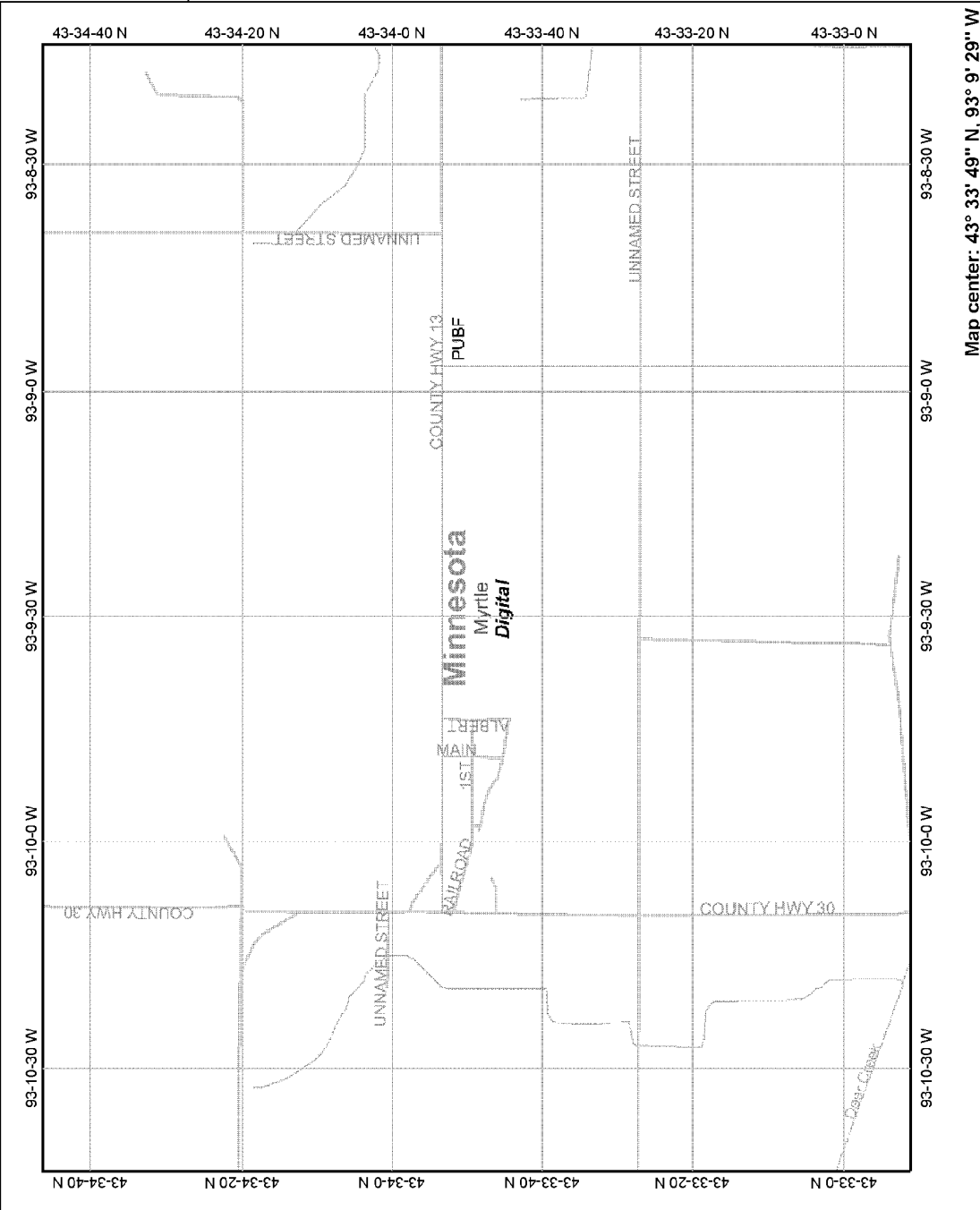
Myrtle Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
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- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,908



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Minnesota Unique Well No.

16667

County Freeborn
 Quad Myrtle
 Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

<p>Well Name SVENSON, ALVIN Township Range Dir Section Subsections Elevation 1265 ft. 101 20 W 1 DDDADC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 142 ft. Depth Completed 142 ft. Date Well Completed 09/18/1979 Drilling Method Non-specified Rotary</p>																																																											
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BLACK</td><td></td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>2</td><td>18</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>18</td><td>30</td></tr> <tr><td>SAND</td><td></td><td></td><td>30</td><td>50</td></tr> <tr><td>CLAY</td><td></td><td></td><td>50</td><td>125</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>125</td><td>135</td></tr> <tr><td>SHALE</td><td></td><td></td><td>135</td><td>135</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>135</td><td>142</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	2	CLAY	YELLOW		2	18	CLAY	BLUE		18	30	SAND			30	50	CLAY			50	125	LIMESTONE			125	135	SHALE			135	135	LIMESTONE			135	142	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.</p> <p>Casing Diameter 5 in. to 132 ft. Weight 15 lbs./ft. Hole Diameter</p> <p>Open Hole from 132 ft. to 142 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Static Water Level 39 ft. from Land surface Date Measured 09/18/1979</p> <p>PUMPING LEVEL (below land surface) 46 ft. after 2 hrs. pumping 100 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
	Geological Material	Color	Hardness	From	To																																																							
	TOP SOIL	BLACK		0	2																																																							
	CLAY	YELLOW		2	18																																																							
	CLAY	BLUE		18	30																																																							
	SAND			30	50																																																							
	CLAY			50	125																																																							
	LIMESTONE			125	135																																																							
	SHALE			135	135																																																							
	LIMESTONE			135	142																																																							
Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																																																						
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Information from neighbor Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 486289 Y: 4824574</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 70 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																																											
<p>First Bedrock Cedar Valley Group Aquifer Cedar Valley Group Last Strat Cedar Valley Group Depth to Bedrock 125 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Morrison Well Co.</u> <u>24001</u> <u>MORRISON</u> <u>D.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																											
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">16667</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/28/2008 HE-01205-07</p>																																																											

Minnesota Unique Well No.

166671

County Freeborn
 Quad Myrtle
 Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

<p>Well Name BELSHAN, CALVIN Township Range Dir Section Subsections Elevation 1251 ft. 101 19 W 17 BBBBAD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 140 ft. Depth Completed 140 ft. Date Well Completed 10/02/1979</p> <p>Drilling Method Non-specified Rotary</p>																																																																			
<p>Well Address RR 1 GLENVILLE MN 56036</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BLACK</td><td></td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>2</td><td>15</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>15</td><td>80</td></tr> <tr><td>SHALE</td><td>LIGHT</td><td></td><td>80</td><td>95</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>95</td><td>125</td></tr> <tr><td>SHALE</td><td>GREEN</td><td></td><td>125</td><td>127</td></tr> <tr><td>LIMESTONE</td><td>GRAY</td><td></td><td>127</td><td>135</td></tr> <tr><td>SHALE</td><td>GREEN</td><td></td><td>135</td><td>136</td></tr> <tr><td>LIMESTONE</td><td>GRAY</td><td></td><td>136</td><td>137</td></tr> <tr><td>SHALE</td><td>GREEN</td><td></td><td>137</td><td>138</td></tr> <tr><td>LIMESTONE</td><td>GRAY</td><td></td><td>138</td><td>140</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	2	CLAY	YELLOW		2	15	CLAY	BLUE		15	80	SHALE	LIGHT		80	95	LIMESTONE			95	125	SHALE	GREEN		125	127	LIMESTONE	GRAY		127	135	SHALE	GREEN		135	136	LIMESTONE	GRAY		136	137	SHALE	GREEN		137	138	LIMESTONE	GRAY		138	140	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.</p> <p>Casing Diameter 5 in. to 100 ft. Weight 15 lbs./ft. Hole Diameter</p> <p>Open Hole from 100 ft. to 140 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Screen NO</th> <th style="text-align: left;">Make</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </tbody> </table> <p>Static Water Level 40 ft. from Land surface Date Measured 10/02/1979</p> <p>PUMPING LEVEL (below land surface) 48 ft. after 2 hrs. pumping 75 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between
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<p>First Bedrock Cedar Valley Group Aquifer Cedar Valley Group Last Strat Cedar Valley Group Depth to Bedrock 80 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Morrison Well Co.</u> <u>24001</u> <u>MORRISON,</u> <u>D.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																			
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">166671</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/28/2008 HE-01205-07</p>																																																																			

Minnesota Unique Well No.

226419

County Freeborn
 Quad Myrtle
 Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
 Update Date 07/27/2000
 Received Date

Well Name PRAUTUER, MILO Township Range Dir Section Subsections Elevation 1265 ft. 101 19 W 6 CCCCAD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 160 ft.	Depth Completed 160 ft.	Date Well Completed 09/01/1960			
Drilling Method --					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.					
Casing Diameter 4 in. to ft.					Weight lbs./ft.		Hole Diameter			
Open Hole from ft. to ft.					Screen NO Make Type					
Geological Material					Color		Hardness		From To	
TOP SOIL SAND BROWN ROCK SAND YELLOW ROCK SOFT LIMESTONE					BROWN YELLOW		SOFT		0 3 3 110 110 112 112 124 124 150 150 160	
Static Water Level ft. from Date Measured					PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping g.p.m.					
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No					
NO REMARKS					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 486465 Y: 4824474					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material					
First Bedrock Cedar Valley Group Aquifer Cedar Valley Group Last Strat Cedar Valley Group Depth to Bedrock 124 ft.					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
County Well Index Online Report					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Well Contractor Certification <u>Morrison Well Co.</u> <u>24001</u> <u>MORRISON WELL</u> License Business Name Lic. Or Reg. No. Name of Driller					226419					
					Printed 6/28/2008 HE-01205-07					

Minnesota Unique Well No.

714596

County Freeborn
 Quad Myrtle
 Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 02/04/2005
 Update Date 11/26/2007
 Received Date 08/27/2004

Minnesota Statutes Chapter 103I

Well Name CREWS, ROGER Township Range Dir Section Subsections Elevation 1255 ft. 101 19 W 8 CBBABC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 115 ft. Depth Completed 115 ft. Date Well Completed 08/23/2004 Drilling Method Non-specified Rotary								
Well Address 86093 145TH ST GLENVILLE MN		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.								
Geological Material SOIL CLAY SAND CLAY SAND SHALE LIMESTONE		Use Domestic Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. Casing Diameter 5 in. to 94 ft. Weight 15 lbs./ft. Hole Diameter 8 in. to 94 ft. 5 in. to 115 ft. Open Hole from 94 ft. to 115 ft. Screen NO Make Type <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Diameter	Slot/Gauze	Length	Set Between				
Diameter	Slot/Gauze	Length	Set Between							
Color Hardness From To BLACK SOFT 0 2 YELLOW SOFT 2 12 LT. GRY SOFT 12 90 DK. GRN SOFT 90 94 BROWN MED-HRD 94 115		Static Water Level 37 ft. from Land surface Date Measured 08/23/2004 PUMPING LEVEL (below land surface) 37 ft. after 2 hrs. pumping 20 g.p.m.								
Well Head Completion Pitless adapter manufacturer MONITOR Model BULLDOG <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Cuttings from 50 to 94 ft. Grout Material: High solids bentonite from to 50 ft. 2.5 bags								
NO REMARKS Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 488059 Y: 4823538		Nearest Known Source of Contamination 55 feet S direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed 08/23/2004 Manufacturer's name AERMOTOR Model number 12T 75 HP 0.75 Volts 230 Length of drop Pipe 60 ft. Capacity 12 g.p.m Type Submersible Material								
First Bedrock Last Strat		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Contractor Certification Martin Well Co. 22109 MARTIN, G. License Business Name Lic. Or Reg. No. Name of Driller								
County Well Index Online Report		714596 Printed 6/28/2008 HE-01205-07								

SITE SUMMARY

Site Name: New Richland

Fire Department: New Richland Fire Department
PO Box 87
New Richland, MN 56072

Site Contact: Brian Svoboda
507-465-3700 (home phone)
Svoboda4@Hickorytech.net (home e-mail)

Training Location: Grassy lot on east side of fire hall, 203 Broadway Avenue N.,
closest cross street 1st Street. NE

Type of foam used in training: Other: Chemguard, product type not specified, training not
specified
Class A: Ansul Silv-ex

Foam training frequency: Bi-Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: Other: not specified
Class A: less than 5 gallons

Nearest surface water: Intermittent stream less than 1/8 mile south

Nearest wetland: 1/4 to 1/3 mile east

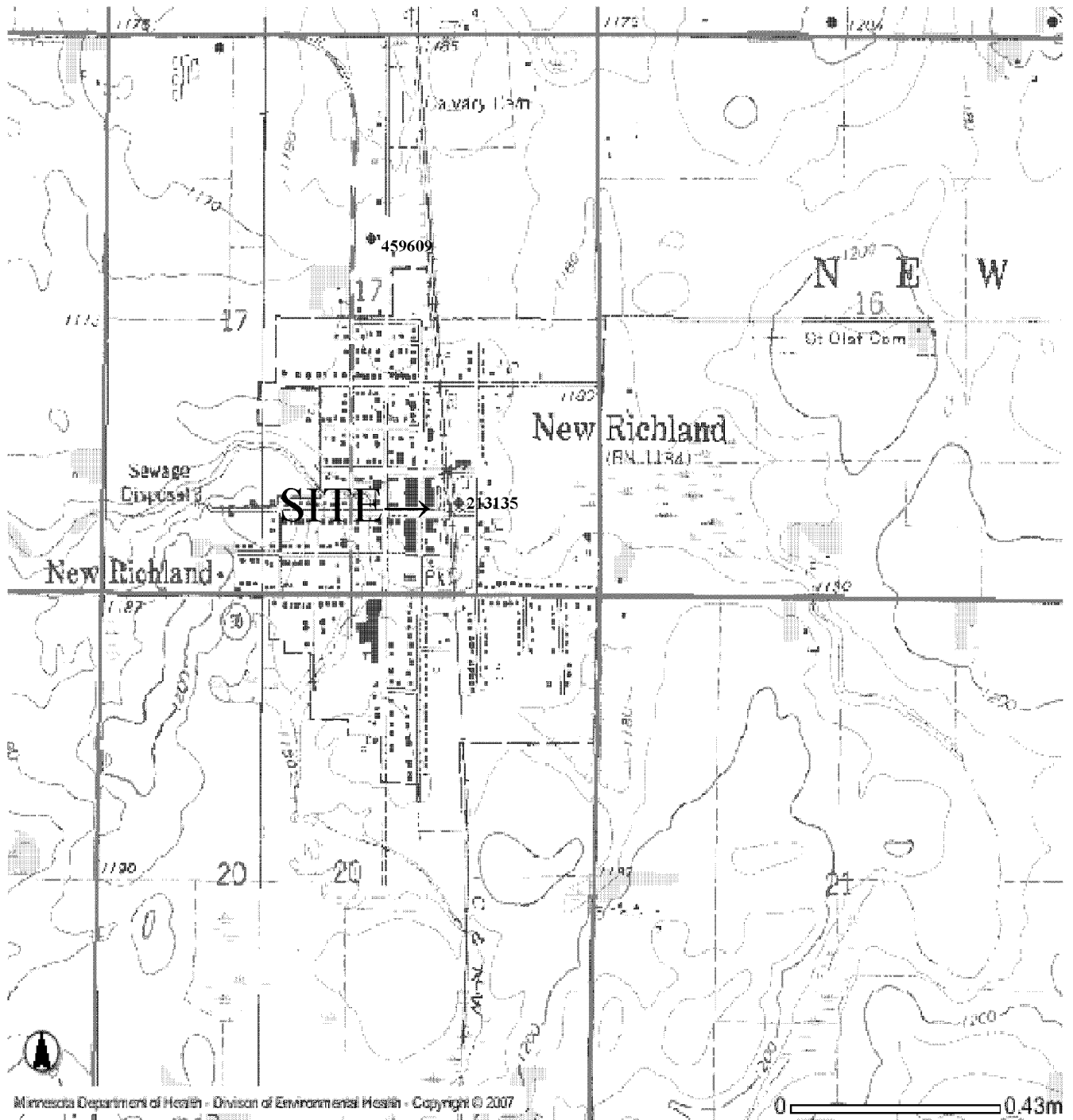
Karst Area: Training site is located in a transition or covered karst area

Nearest water well: Less than 1/8 mile north

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 13

NEW RICHLAND CWI Well Map



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0 0.43m

Minnesota Unique Well No.

213135

County Waseca
 Quad New Richland
 Quad ID 32B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
 Update Date 01/19/1992
 Received Date

Well Name DUNWOODY + CORSON MILL Township Range Dir Section Subsections Elevation 1184 ft. 105 22 W 17 DCADBD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 110 ft. Depth Completed 110 ft. Date Well Completed
Well Address NEW RICHLAND MN		Drilling Method Cable Tool
Geological Material SOIL TILL WITH SAND STREAKS TILL SAND SANDSTONE		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Color YELLOW BLUE YELLOW		Use Commercial
Hardness HARD		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.
From 0 2 32 98 100		Casing Diameter Weight Hole Diameter
To 2 32 98 100		Open Hole from ft. to ft.
Screen Make Type		Static Water Level ft. from Date Measured
Diameter Slot/Gauze Length Set Between		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
REMARKS ABANDONED		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Unique Number Verification Information from owner Date N/A		Nearest Known Source of Contamination _feet _direction _type
System UTM - Nad83, Zone15, Meters X: 460467 Y: 4860226		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Galena Aquifer Last Strat Galena Depth to Bedrock 100 ft.		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
213135		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

459609

County Waseca
 Quad New Richland
 Quad ID 32B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 01/28/1992
 Update Date 03/27/1992
 Received Date

<p>Well Name HERBST, GLEN</p> <p>Township Range Dir Section Subsections Elevation 1176 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>105 22 W 17 ACBCDB Elevation Method</p> <p>Well Address RR 2 NEW RICHLAND MN 56072</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>SOIL</td><td>BLACK</td><td>SOFT</td><td>0</td><td>2</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td>SOFT</td><td>2</td><td>6</td></tr> <tr><td>SANDY + GRAVELY CLAY</td><td>YELLOW</td><td>SOFT</td><td>6</td><td>14</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>SOFT</td><td>14</td><td>90</td></tr> <tr><td>SANDY CLAY</td><td>BLUE</td><td>SOFT</td><td>90</td><td>111</td></tr> <tr><td>LIMESTONE</td><td>YELLOW</td><td>M.HARD</td><td>111</td><td>121</td></tr> <tr><td>LIMESTONE</td><td>GRAY</td><td>M.HARD</td><td>121</td><td>152</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SOIL	BLACK	SOFT	0	2	CLAY	YELLOW	SOFT	2	6	SANDY + GRAVELY CLAY	YELLOW	SOFT	6	14	CLAY	BLUE	SOFT	14	90	SANDY CLAY	BLUE	SOFT	90	111	LIMESTONE	YELLOW	M.HARD	111	121	LIMESTONE	GRAY	M.HARD	121	152	<p>Well Depth 152 ft. Depth Completed 152 ft. Date Well Completed 05/01/1990</p> <p>Drilling Method Non-specified Rotary</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Drilling Fluid Bentonite</td> <td>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Domestic</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td>Casing Diameter 4 in. to 111 ft.</td> <td>Weight lbs./ft.</td> <td>Hole Diameter 7 in. to 111 ft. 4 in. to 152 ft.</td> </tr> <tr> <td colspan="3">Open Hole from 111 ft. to 152 ft.</td> </tr> <tr> <td>Screen NO</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length Set Between</td> </tr> <tr> <td colspan="3">Static Water Level 37 ft. from Land surface Date Measured 05/01/1990</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 15 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table> <p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 70 feet South East direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/01/1990 Manufacturer's name FLINT + WALLING Model number 4F10B05 HP 0.5 Volts 230 Length of drop Pipe 54 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized</p> <p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Born Well Co. 81162 BORN, R. License Business Name Lic. Or Reg. No. Name of Driller</p>	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Domestic		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter 4 in. to 111 ft.	Weight lbs./ft.	Hole Diameter 7 in. to 111 ft. 4 in. to 152 ft.	Open Hole from 111 ft. to 152 ft.			Screen NO	Make	Type	Diameter	Slot/Gauze	Length Set Between	Static Water Level 37 ft. from Land surface Date Measured 05/01/1990			PUMPING LEVEL (below land surface) 40 ft. after hrs. pumping 15 g.p.m.			Well Head Completion Pitless adapter manufacturer Model			<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
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<p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Date 06/26/2004</p> <p>Verification Other, note in remarks</p> <p>System UTM - Nad83, Zone15, Meters X: 460181 Y: 4860986</p> <p>First Bedrock Galena Aquifer Galena Last Strat Galena Depth to Bedrock 111 ft.</p>																																																																										
County Well Index Online Report	459609	Printed 6/28/2008 HE-01205-07																																																																								

SITE SUMMARY

Site Name: Newfolden

Fire Department: Newfolden Fire Department
PO Box 188
Newfolden, MN 56378

Site Contact: Keith Rud, Fire Chief
218-874-7135
krud@wiktel.com

Training Location: Fire hall (exact location not found, assumed in town)

Type of foam used in training: Other: Oxford 229 Wetting Agent, used in training not specified

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Other: 5 gallons
Class A: 5 to 10 gallons

Nearest surface water: Middle River runs along south edge of town

Nearest wetland: 1/4 to 1/3 mile southwest and east of town

Nearest water well: 1/4 to 1/2 mile east and west of town

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 7

Newfolden What's In My Neighborhood Map

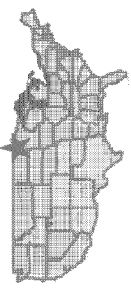
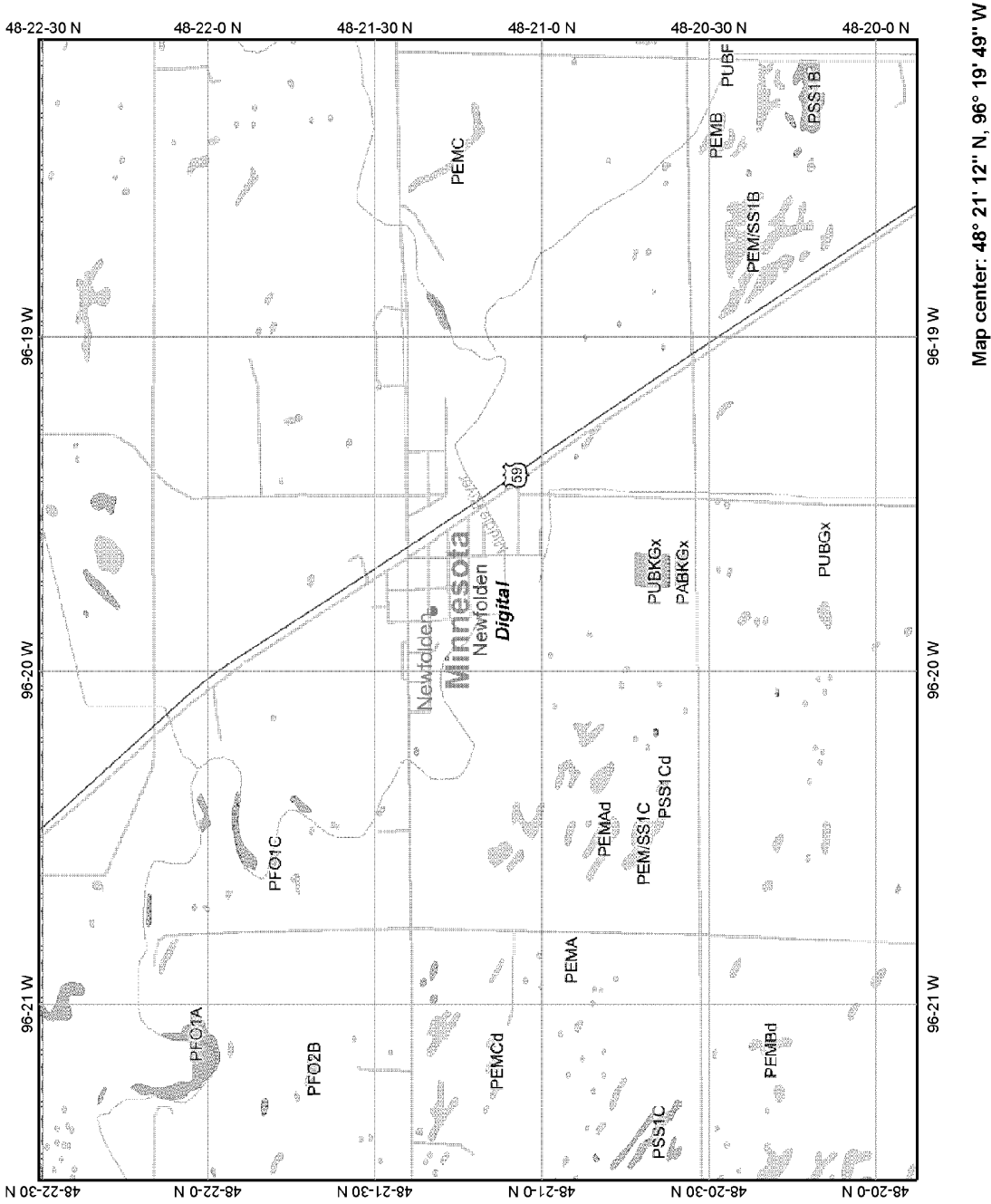


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Newfolden Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:34,158

Map center: 48° 21' 12" N, 96° 19' 49" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/06/2005
Update Date 05/09/2006
Received Date 01/31/2005

Minnesota Unique Well No.

683985

County Marshall
Quad Newfolden
Quad ID 416D

*Minnesota Statutes Chapter
1031*

Well Name KNUTSON, RANDY		Well Depth 85 ft.	Depth Completed 83 ft.	Date Well Completed 01/11/2005
Township Range Dir Section Subsections Elevation 156 44 W 9 BAABDB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Non-specified Rotary		
Well Address 12615 330TH ST NW NEWFOLDEN MN 56738		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
Geological Material		Use Domestic		
Color	Hardness	Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
TOP SOIL	BLACK SOFT	Casing Diameter	Weight	Hole Diameter
CLAY - STONES	GRAY MEDIUM	4 in. to 78 ft.	1.5 lbs./ft.	8 in. to 30 ft.
SAND	GRAY SOFT			6.25 in. to 85 ft.
From	To	Open Hole from ft. to ft.		
0	1	Screen YES Make JOHNSON Type		
1	75	Diameter	Slot/Gauze	Length
75	85	3	12	5
		Set Between 78 ft. and 83 ft.		
Static Water Level 12 ft. from Land surface Date Measured 01/03/2005		PUMPING LEVEL (below land surface) 75 ft. after 2 hrs. pumping 7 g.p.m.		
Well Head Completion Pitless adapter manufacturer MONITOR Model BULLDOG <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from to 40 ft. 1 bags		
Nearest Known Source of Contamination 100 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed 01/03/2005 Manufacturer's name STA-RITE Model number 10SP40C2J HP 0.5 Volts 230 Length of drop Pipe 75 ft. Capacity 10 g.p.m. Type Submersible Material		
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

NO REMARKS

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A **Date** 12/22/2005
System UTM - Nad83, Zone15, Meters **X:** 254434 **Y:** 5361240

First Bedrock Last Strat	Well Contractor Certification <u>Davidson Well</u> <u>45664</u> <u>DAVIDSON,</u> License Business Name Lic. Or Reg. No. Name of Driller <u>J.</u>	
County Well Index Online Report	683985	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

712351

County Marshall
 Quad Newfolden
 Quad ID 416D

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 08/02/2006
 Update Date 04/14/2005
 Received Date 04/14/2005

Well Name ANDERSON, ROB Township Range Dir Section Subsections Elevation 1093 ft. 156 44 W 8 BBBBDC Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 112 ft. Depth Completed 110 ft. Date Well Completed 03/01/2005 Drilling Method Non-specified Rotary																				
Well Address 330TH ST NW NEWFOLDEN MN 56738 <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>TOPSOIL</td> <td>BLACK</td> <td>SOFT</td> <td>0</td> <td>1</td> </tr> <tr> <td>CLAY-STONES</td> <td>GRAY</td> <td>MEDIUM</td> <td>1</td> <td>95</td> </tr> <tr> <td>SAND-FINE</td> <td>GRAY</td> <td>SOFT</td> <td>95</td> <td>112</td> </tr> </table>		Geological Material	Color	Hardness	From	To	TOPSOIL	BLACK	SOFT	0	1	CLAY-STONES	GRAY	MEDIUM	1	95	SAND-FINE	GRAY	SOFT	95	112	Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
		Geological Material	Color	Hardness	From	To																
		TOPSOIL	BLACK	SOFT	0	1																
		CLAY-STONES	GRAY	MEDIUM	1	95																
		SAND-FINE	GRAY	SOFT	95	112																
		Use Domestic																				
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																				
		<table border="0"> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>4 in. to 100 ft.</td> <td>1.5 lbs./ft.</td> <td></td> </tr> </table>	Casing Diameter	Weight	Hole Diameter	4 in. to 100 ft.	1.5 lbs./ft.															
		Casing Diameter	Weight	Hole Diameter																		
		4 in. to 100 ft.	1.5 lbs./ft.																			
Open Hole from ft. to ft.																						
<table border="0"> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> <tr> <td>3</td> <td>10</td> <td>10</td> <td>100 ft. and 110 ft.</td> </tr> </table>	Screen YES	Make JOHNSON	Type	Diameter	Slot/Gauze	Length	Set Between	3	10	10	100 ft. and 110 ft.											
Screen YES	Make JOHNSON	Type																				
Diameter	Slot/Gauze	Length	Set Between																			
3	10	10	100 ft. and 110 ft.																			
Static Water Level 10 ft. from No Information Date Measured 03/01/2005																						
PUMPING LEVEL (below land surface) 30 ft. after 2 hrs. pumping 35 g.p.m.																						
Well Head Completion Pitless adapter manufacturer MONITOR Model BULLDOG <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																						
<p style="text-align: center;"><i>NO REMARKS</i></p> Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 12/22/2005 System UTM - Nad83, Zone15, Meters X: 252198 Y: 5361266	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 8 to 60 ft. 2 bags																					
	Nearest Known Source of Contamination 100 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					
	Pump <input type="checkbox"/> Not Installed Date Installed 03/01/2005 Manufacturer's name STA-RITE Model number 10SP40CJ2 HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m Type Submersible Material																					
	Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					
	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Davidson Well</u> <u>45664</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	712351	Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name: North St. Paul

Fire Department: North St. Paul Fire Department
2400 Margaret Street
North St. Paul, MN 55109

Site Contact: Jason Mallinger, Deputy Fire Chief
651-747-2552
jmallinger@ci.north-saint-paul.mn.us

Training Location: North St. Paul Public Works, 2303 1st Street N., North St. Paul

Type of foam used in training: AFFF: 3M Light Water
Class A: 3M Light Water (SFFF)

Foam training frequency: Semi-Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 5 gallons
Class A: 15 gallons

Nearest surface water: Unnamed stream less than 1/8 mile northeast

Nearest wetland: 1/4 to 1/2 mile west

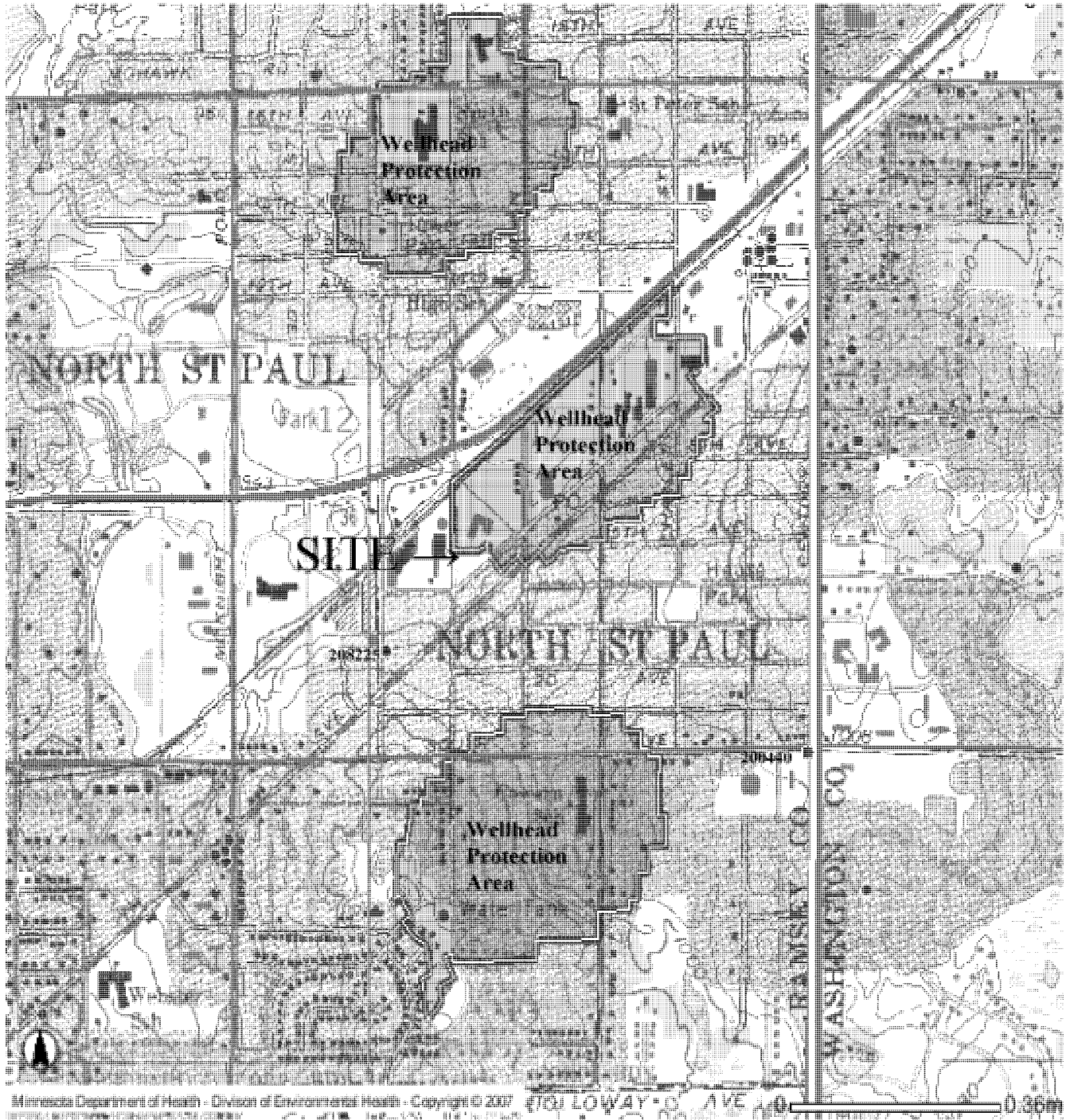
Karst Area: Training site is located in a covered karst area

Nearest water well: Less than 1/4 mile southwest

Nearest Wellhead Protection Area: Training site located in or adjacent to Wellhead Protection Area

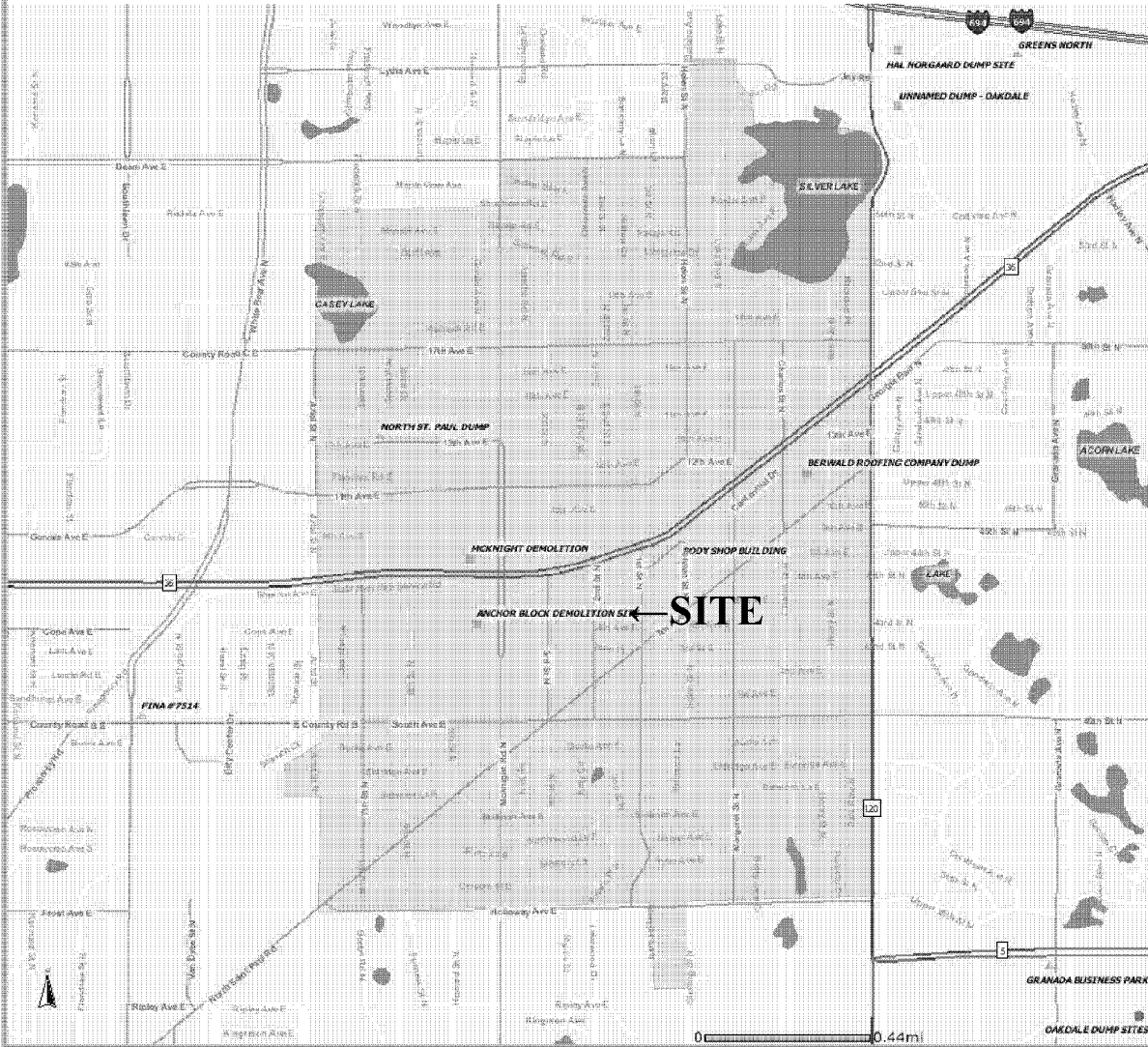
SITE RANKING: 28

NORTH ST PAUL CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007
LOWAY AVE

North St. Paul Richland *What's In My Neighborhood*



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 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

200440

County Ramsey
 Quad White Bear Lake East
 Quad ID 118C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/14/1991
 Update Date 01/14/2004
 Received Date

Minnesota Statutes Chapter 103I

Well Name CLYDE CROSSLEY		Well Depth 200 ft.	Depth Completed 200 ft.	Date Well Completed 08/30/1936	
Township Range Dir Section Subsections Elevation 29 22 W 13 AAAAAB Elevation Method 7.5 minute topographic map (-/+ 5 feet)		Drilling Method --			
Well Address B CR NORTH ST PAUL MN Geological Material BOULDERS + GRAVEL + CLAY SAND GRAY CLAY, GRAVEL AND SAND BOULDERS + SAND + CLAY CLAY + SAND SANDROCK		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.			
		Casing Diameter 2 in. to 180 ft.	Weight lbs./ft.	Hole Diameter	
		Open Hole from ft. to ft.			
		Screen Make Type			
		Diameter	Slot/Gauze	Length	Set Between
		Static Water Level 120 ft. from Land surface Date Measured 08/00/1936			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS WELL ABANDONED		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 501191 Y: 4983690		Nearest Known Source of Contamination _ftct _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock St.Peter Last Strat St.Peter Aquifer St.Peter Depth to Bedrock 131 ft.		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification <u>Keys Well Co.</u> <u>62012</u> License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		200440		Printed 6/28/2008 HE-01205-07	

SITE SUMMARY

Site Name: Northland

Fire Department: Northland Fire Department
7271 Highway 53 S.
Canyon, MN 55717

Site Contact: Not provided, back page of questionnaire not completed

Training Location: Fire hall, 7271 Highway 53, Canyon

Type of foam used in training: Not specified

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Not specified, use of 3M AFFF assumed

Nearest surface water: Hellwig Creek, 1/4 tot 1/3 mile east

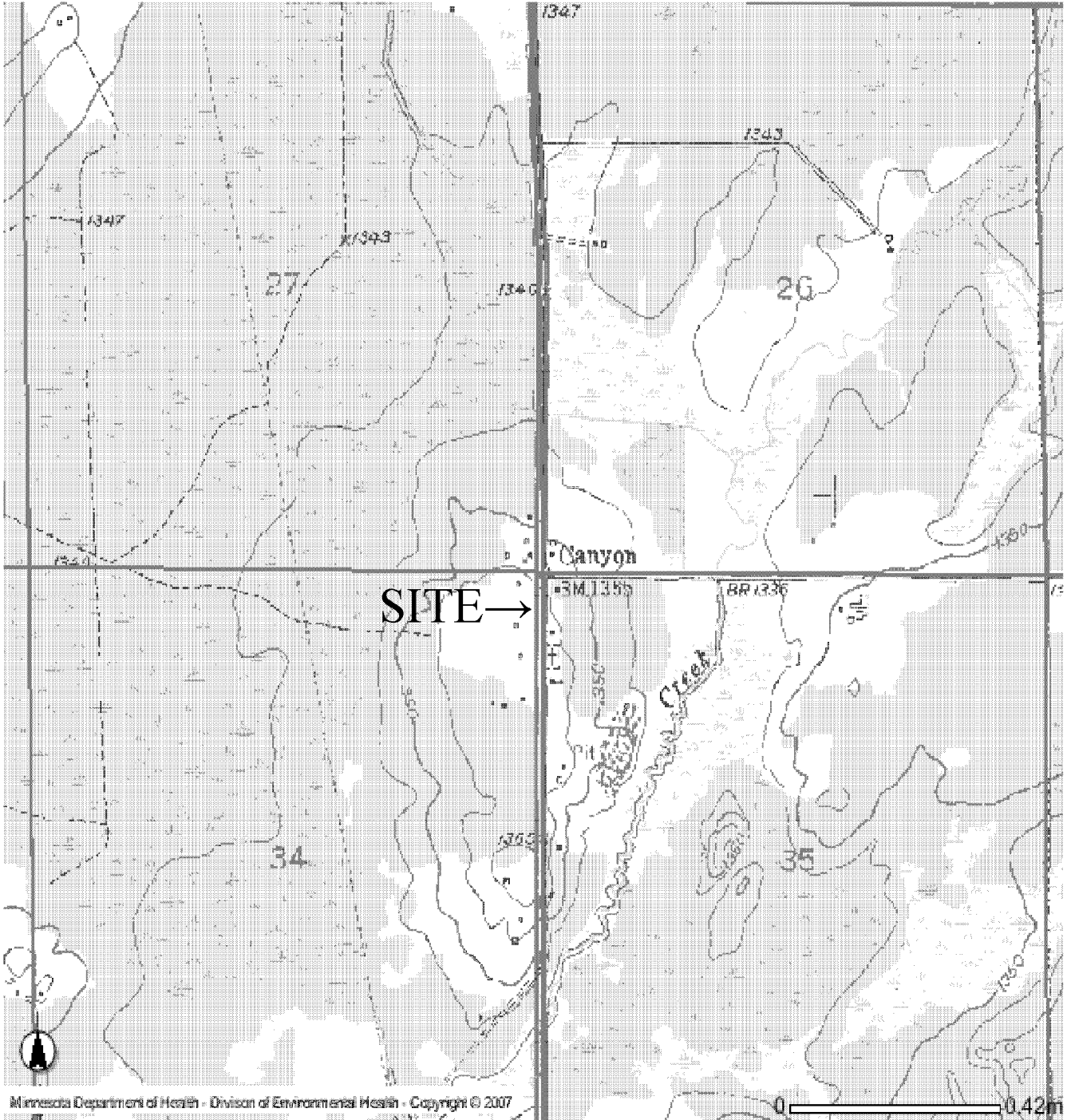
Nearest wetland: 1/4 to 1/2 mile west

Nearest water well: More than 1 mile

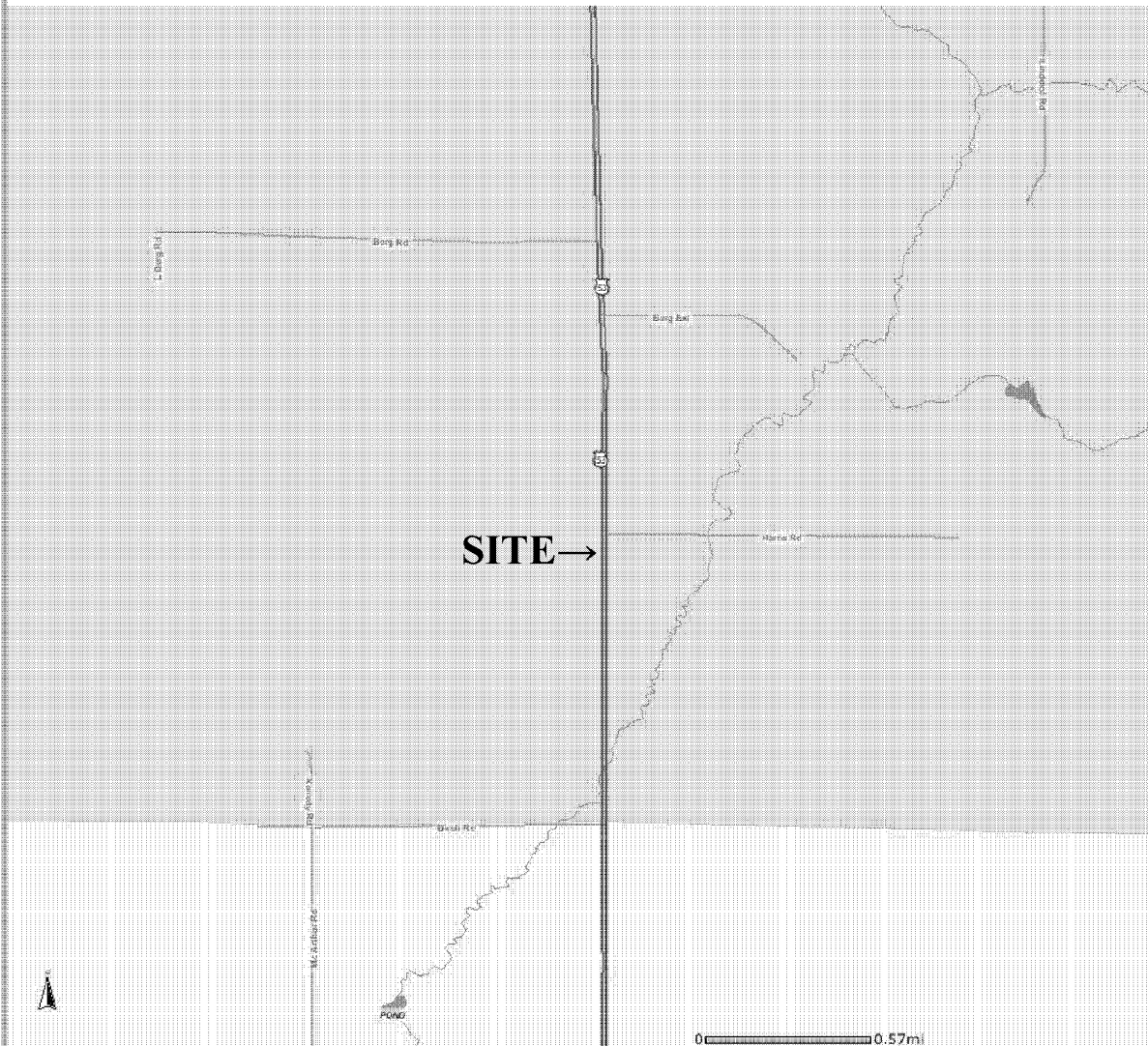
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 12

NORTHLAND CWI Well Map



Northland What's In My Neighborhood Map



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 - Federal Superfund
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 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

SITE SUMMARY

Site Name: Northrop

Fire Department: Northrop Fire Department
PO Box 208
Northrop, MN 56075

Site Contact: Corrie Martinson, Fire Chief
507-399-3228
nfdiredp@yahoo.com

Training Location: Behind fire hall, 211 N. Bridgeman, Northrop

Type of foam used in training: Other: Pyrocom Stick

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Other: 1 stick

Nearest surface water: Lake Charlotte, more than 1 mile southwest

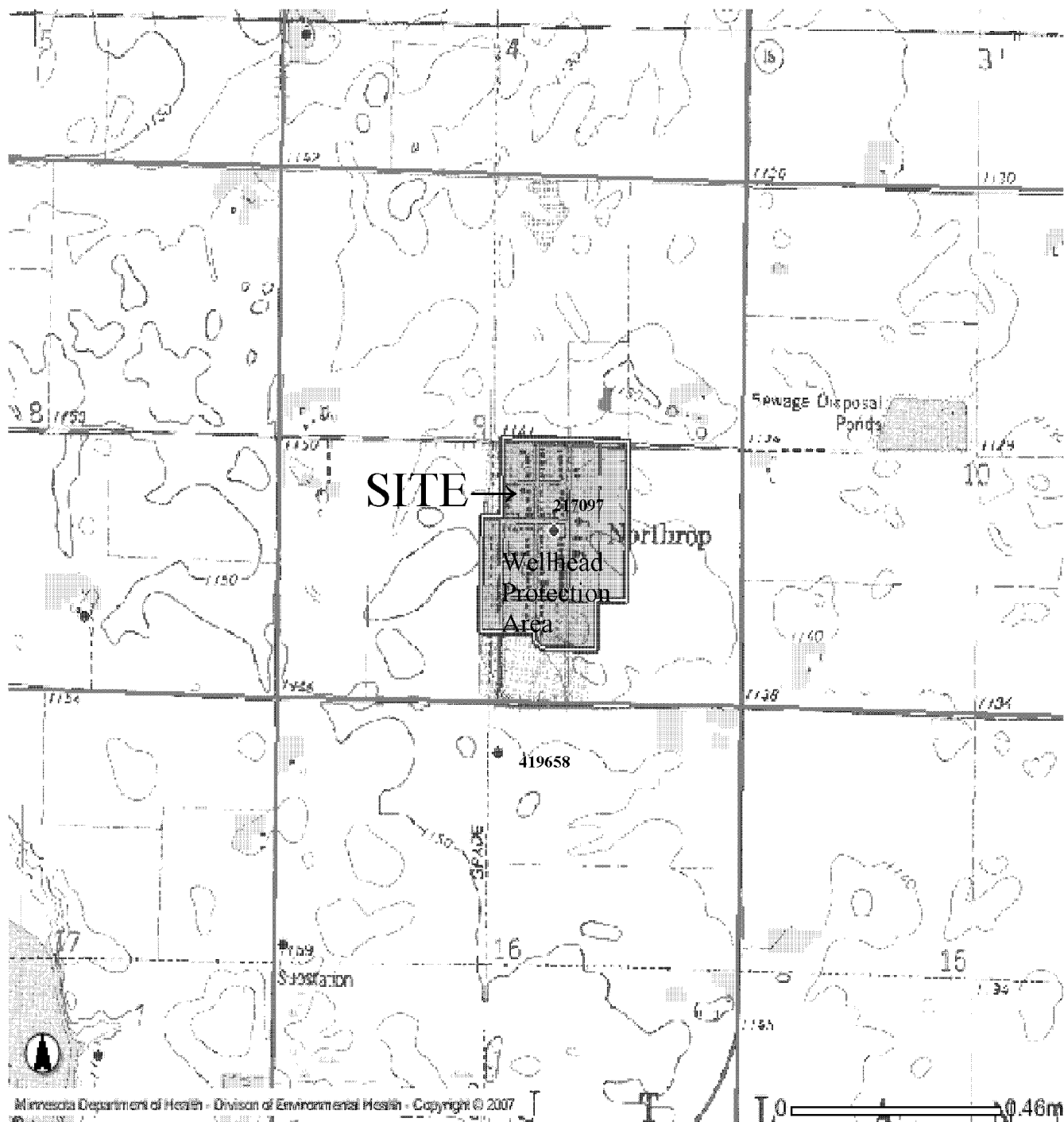
Nearest wetland: More than 1/4 to the east and west

Nearest water well: Less than 1/8 mile southeast

Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 11

NORTHROP CWI Well Map



Northrop *What's In My Neighborhood* Map

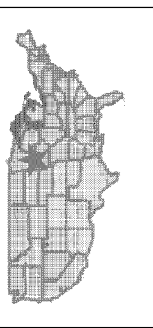
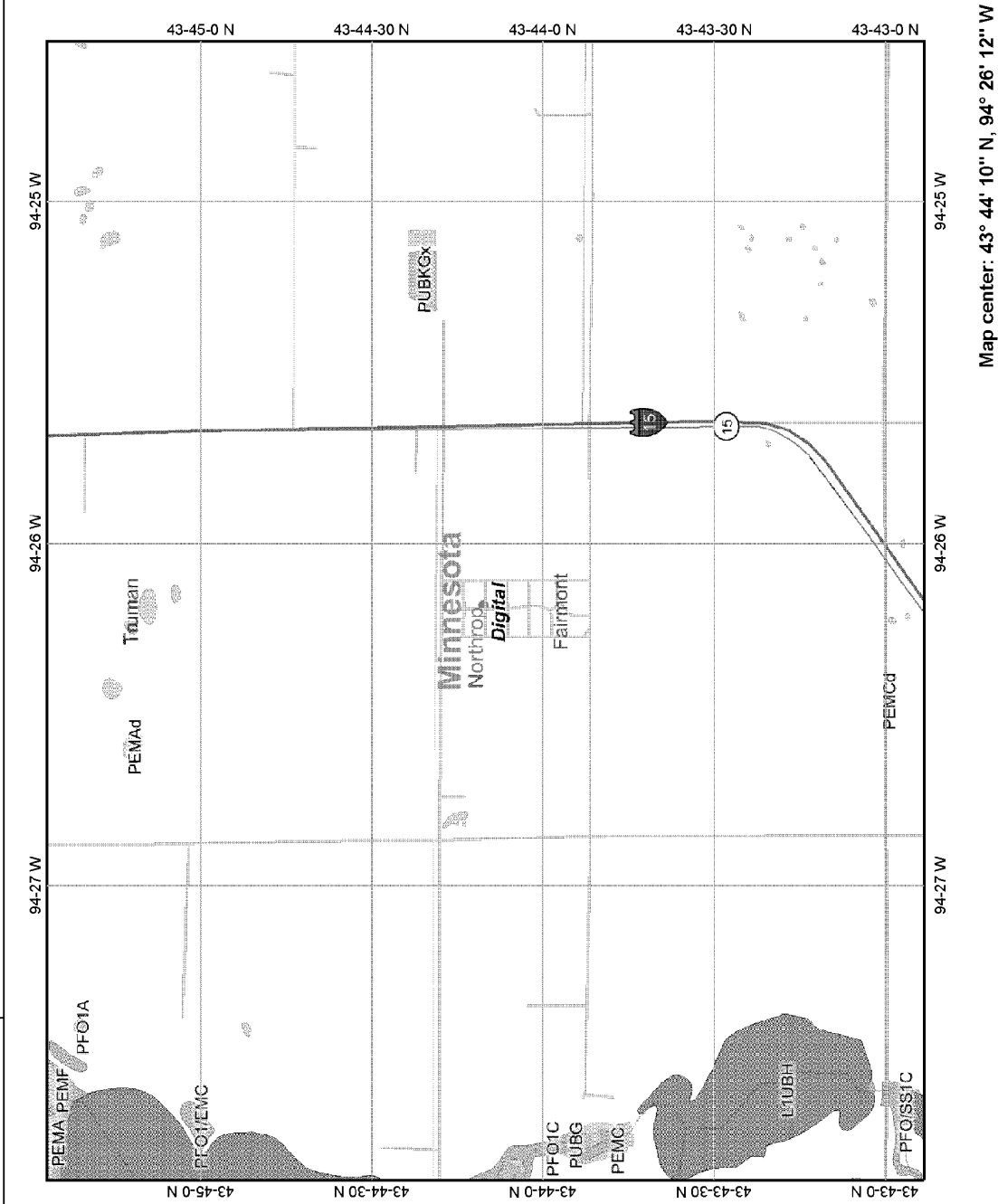


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Northrop Wetland Map



Legend

- Interstate
- Major Roads
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- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
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Scale: 1:33,256

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Map center: 43° 44' 10" N, 94° 26' 12" W

Minnesota Unique Well No.

419658

County Martin
 Quad
 Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/13/1988
 Update Date 09/12/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name ABEL,ROYCE		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		170 ft.	169 ft.	10/16/1986
103	30 W 16 DAAADD Elevation Method	7.5 minute topographic map (+/- 5 feet)		
		Drilling Method Non-specified Rotary		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.		
		Casing Diameter	Weight	Hole Diameter
		5 in. to 164 ft.	lbs./ft.	9 in. to 170 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
		Diameter	Slot/Gauze	Length Set Between
		5	20	5 164 ft. and 169 ft.
Geological Material		Color	Hardness	From To
TOP SOIL		BLACK	SOFT	0 1
CLAY		YELLOW	SOFT	1 13
CLAY		BLUE	SOFT	13 152
SAND		BROWN	SOFT	152 170
		Static Water Level		
		45 ft. from Land surface Date Measured 10/16/1986		
		PUMPING LEVEL (below land surface)		
		80 ft. after 1 hrs. pumping 20 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer SNAPPY Model 5"		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONI.Y)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Bentonite from 0 to 150 ft. 1.5 yds.		
		Nearest Known Source of Contamination		
		65 feet W direction type		
Located Mankato State University Method Digitization (Screen) - Map (1:24,000) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 384173 Y: 4842893		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed 10/16/1986		
		Manufacturer's name GRUDFOS Model number SP2-10		
		HP 0.5 Volts 230 Length of drop Pipe 80 ft. Capacity 10 g.p.m. Type Submersible Material Plastic		
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
		Beemer Well Co.	46191	KOLLASCH, T.
		License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		419658		Printed 6/28/2008 HF-01205-07

SITE SUMMARY

Site Name: Paynesville

Fire Department: Paynesville Fire Department
Box 34
Paynesville, MN 56362

Site Contact: Jack Winter, Fire Chief
320-243-3714
jwinter@lakedalelink.net

Training Location: City airport, Paynesville

Type of foam used in training: AR-AFFF: Chemguard AR3% (use in training not specified)
Class A: Ansul Silv-ex (use in training not specified)
Other: Pyrocom TS-Eco (use in training not specified)

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: less than 1 gallon
Class A: not specified
Other: not specified

Nearest surface water: North Fork of the Crow River, less than 1/4 mile north of airport

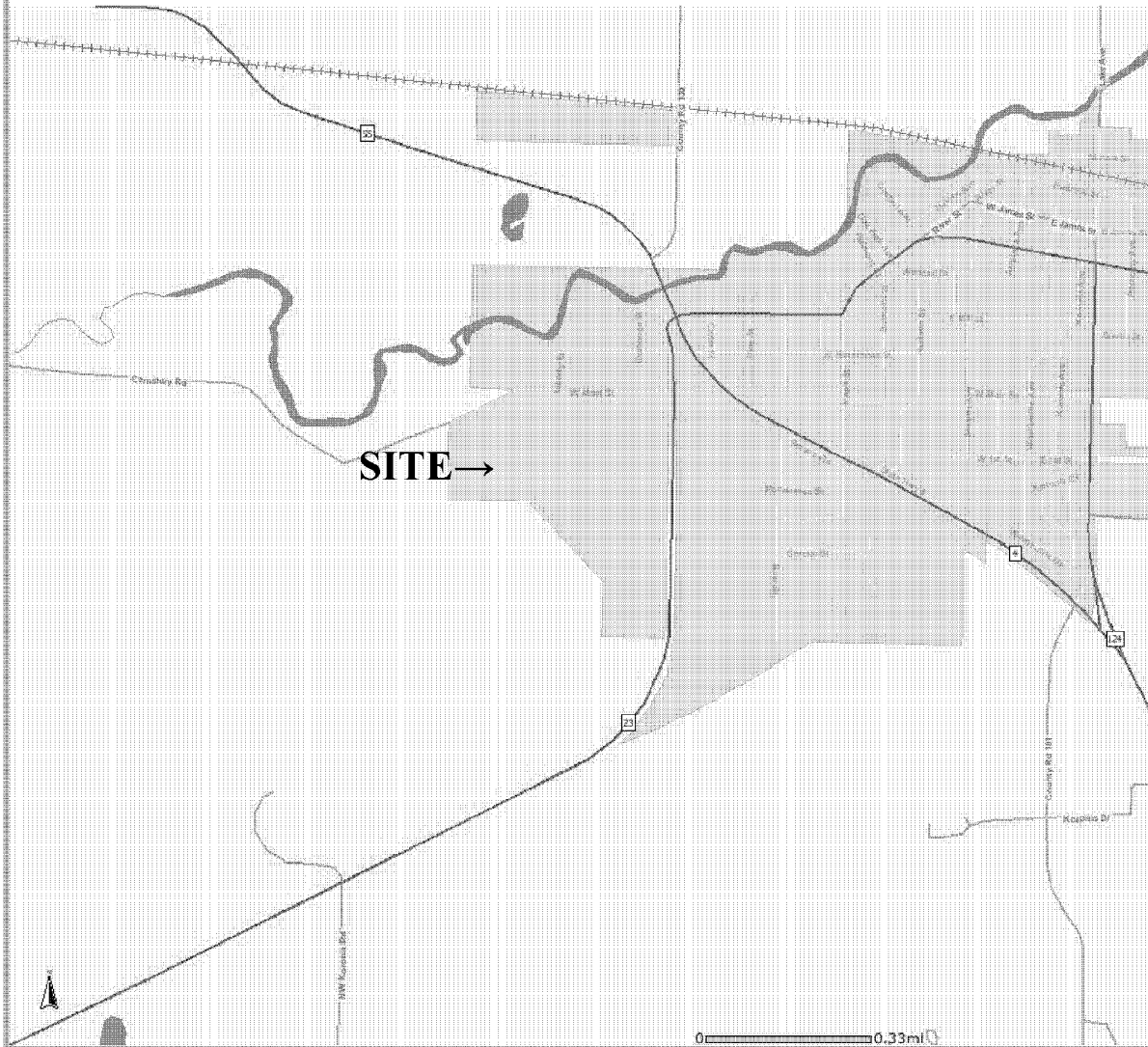
Nearest wetland: Less than 1/4 mile north

Nearest water well: Less than 1/8 mile from airport

Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 16

Paynesville What's In My Neighborhood Map

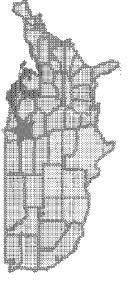
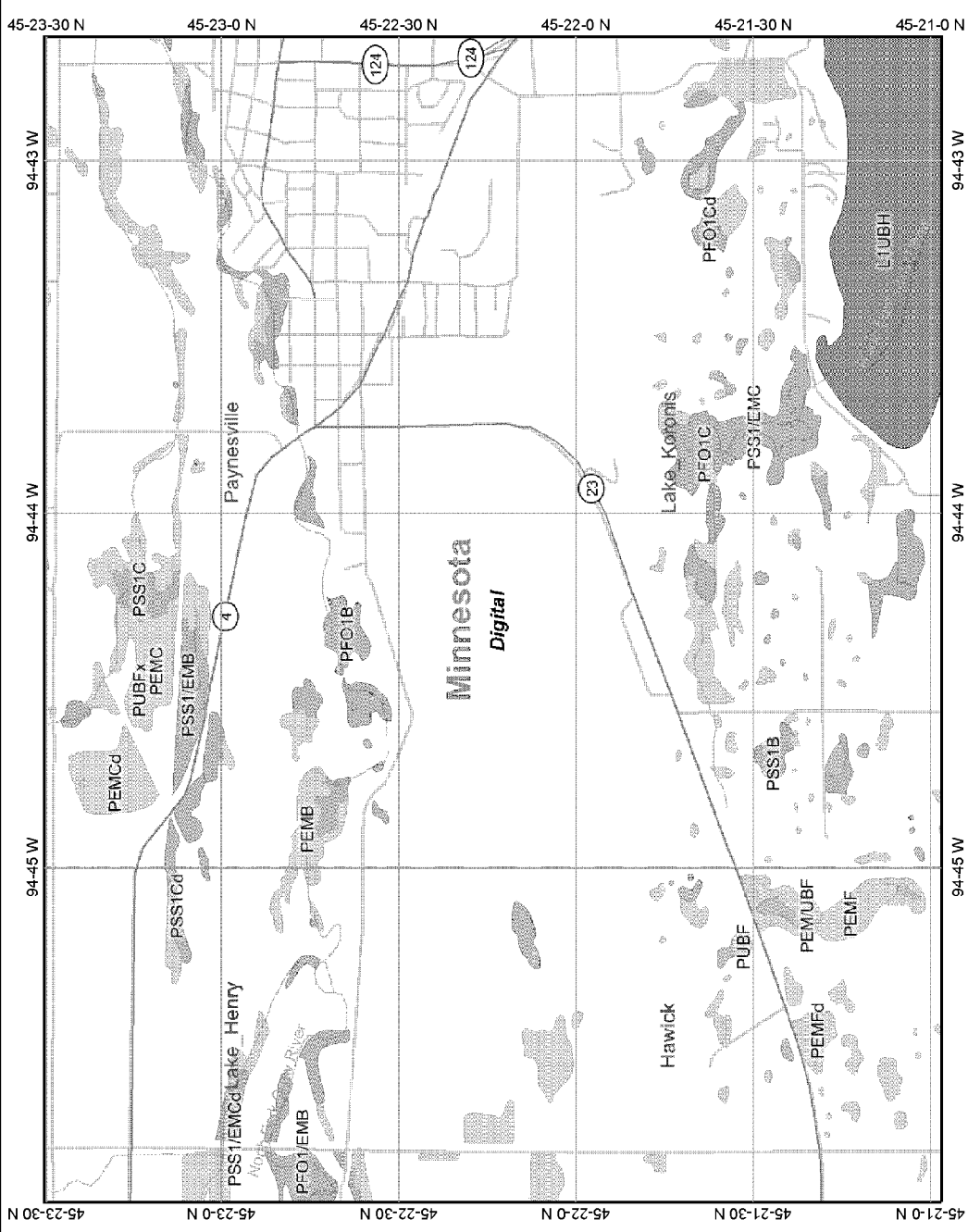


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Paynesville Wetland Map



Legend

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- Major Roads
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- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
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- NHD Streams
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- South America
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Scale: 1:32,917

Map center: 45° 22' 14" N, 94° 44' 18" W

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Minnesota Unique Well No.

232277

County Stearns
 Quad Lake Koronis
 Quad ID 141C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 02/13/1989
 Update Date 08/20/1993
 Received Date

Minnesota Statutes Chapter 103I

Well Name ROTHSTEIN, DENNIS		Well Depth	Depth Completed	Date Well Completed																																																		
Township Range Dir Section Subsections Elevation		141 ft.	141 ft.	06/23/1974																																																		
122	32 W 17 CCDDCA	Elevation Method 7.5 minute topographic map (+/- 5 feet)																																																				
		Drilling Method --																																																				
Well Address RR 3 BOX 60 PAYNESVILLE MN Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOPSOIL</td><td></td><td></td><td>0</td><td>1</td></tr> <tr><td>COARSE GRAVEL</td><td>BROWN</td><td></td><td>1</td><td>9</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>9</td><td>20</td></tr> <tr><td>COARSE SAND</td><td>BROWN</td><td></td><td>20</td><td>38</td></tr> <tr><td>SAND MIXED W/ CLAY</td><td>BLUE</td><td></td><td>38</td><td>52</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>52</td><td>82</td></tr> <tr><td>COARSE SAND</td><td>BROWN</td><td></td><td>82</td><td>98</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>98</td><td>101</td></tr> <tr><td>COARSE SAND & GRAVEL</td><td>BROWN</td><td></td><td>101</td><td>141</td></tr> </tbody> </table>		Material	Color	Hardness	From	To	TOPSOIL			0	1	COARSE GRAVEL	BROWN		1	9	CLAY	BLUE		9	20	COARSE SAND	BROWN		20	38	SAND MIXED W/ CLAY	BLUE		38	52	CLAY	BLUE		52	82	COARSE SAND	BROWN		82	98	CLAY	BLUE		98	101	COARSE SAND & GRAVEL	BROWN		101	141	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Material	Color	Hardness	From	To																																																
		TOPSOIL			0	1																																																
		COARSE GRAVEL	BROWN		1	9																																																
		CLAY	BLUE		9	20																																																
		COARSE SAND	BROWN		20	38																																																
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		CLAY	BLUE		52	82																																																
		COARSE SAND	BROWN		82	98																																																
		CLAY	BLUE		98	101																																																
COARSE SAND & GRAVEL	BROWN		101	141																																																		
		--	From Ft. to Ft.																																																			
		Use Irrigation																																																				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																																																				
		Casing Diameter	Weight	Hole Diameter																																																		
		12 in. to 26 ft.	lbs./ft.																																																			
		12 in. to 125 ft.	lbs./ft.																																																			
		Open Hole from ft. to ft.																																																				
		Screen YES Make Type																																																				
		Diameter	Slot/Gauze	Length Set Between																																																		
		12	125	12 26 ft. and 38 ft.																																																		
		12	125	16 125 ft. and 141 ft.																																																		
		Static Water Level																																																				
		12 ft. from Land surface Date Measured 06/23/1974																																																				
		PUMPING LEVEL (below land surface)																																																				
		0 ft. after hrs. pumping 650 g.p.m.																																																				
		Well Head Completion																																																				
		Pitless adapter manufacturer Model																																																				
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																																				
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																				
<p style="text-align: center;"><i>NO REMARKS</i></p> Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 363861 Y: 5025494		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Nearest Known Source of Contamination																																																				
		_feet _direction _type																																																				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed																																																				
		Manufacturer's name Model number __ HP 41 Volts																																																				
		Length of drop Pipe _ft. Capacity _g.p.m. Type Turbine Material																																																				
		Abandoned Wells Does property have any not in use and not sealed well(s)?																																																				
		<input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
First Bedrock		Well Contractor Certification																																																				
Aquifer Multiple		Aaa Well Co. 73107																																																				
Last Strat Sand & larger-brown		License Business Name Lic. Or Reg. No. Name of Driller																																																				
Depth to Bedrock ft.																																																						
County Well Index Online Report		232277		Printed 6/28/2008 HE-01205-07																																																		

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 06/30/1992
Update Date 08/20/1993
Received Date

Minnesota Unique Well No.

242890

County Stearns
Quad Lake Koronis
Quad ID 141C

*Minnesota Statutes Chapter
1031*

<p>Well Name KORONIS HILLS GOLF COURS Township Range Dir Section Subsections Elevation 1227 ft. 122 32 W 20 ABCDCB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 125 ft. Depth Completed 125 ft. Date Well Completed 07/10/1990 Drilling Method</p>
<p>Well Address BOX 55 PAYNESVILLE MN 56362</p> <p>Geological Material Color Hardness From To</p>	<p>Drilling Fluid Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Irrigation</p>
	<p>Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p>
	<p>Casing Diameter Weight Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen Diameter Slot/Gauze Length Set Between</p>
	<p>Static Water Level ft. from Date Measured</p>
	<p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Method Digitized - scale 1:24,000 or larger (Digitizing Table) Geological Survey</p> <p>Unique Number Date N/A Verification Name on mailbox</p> <p>System UTM - Nad83, X: 364615 Y: 5025094 Zone15, Meters</p>	<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>
	<p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Minnesota Dept. of Natural Resources</u>	<u>MNDNR</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		242890	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

433231

County Stearns
 Quad Lake Koronis
 Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/22/1991
 Update Date 08/20/1993
 Received Date

Minnesota Statutes Chapter 1031

Well Name BUERMAN, DUANE		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		129 ft.	129 ft.	08/08/1987	
122	32 W 20 BDABAC Elevation Method	7.5 minute topographic map (+/- 5 feet)			
		Drilling Method Non-specified Rotary			
Well Address 29866 23 SH PAYNESVILLE MN 56362 Geological Material Color Hardness From To GRAVEL & BOULDERS YELLOW 0 51 CLAY YELLOW 51 82 CLAY BLUE 82 90 SANDY CLAY BLUE 90 95 CLAY BLUE 95 119 SAND BLUE 119 129		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Bentonite	From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.			
		Casing Diameter	Weight	Hole Diameter	
		5 in. to 119 ft.	lbs./ft.	9 in. to 129 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make JOHNSON	Type stainless steel	
		Diameter	Slot/Gauze	Length	Set Between
		4	18	10	119 ft. and 129 ft.
Static Water Level					
80 ft. from Land surface Date Measured 08/08/1987					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Address verification System UTM - Nad83, Zone15, X: 364204 Y: 5025019 Meters		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Neat Cement from 0 to 30 ft. 0			
		Grout Material: Cuttings from 30 to 119 ft. 0			
		Nearest Known Source of Contamination			
		60 feet South West direction Tanks type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/08/1987			
		Manufacturer's name A.Y. MCDONALD Model			
		number __ HP 0.5 Volts 230			
		Length of drop Pipe 100 ft. Capacity 10 g.p.m			
Type Submersible Material Plastic					
Abandoned Wells Does property have any not in use and not sealed well(s)?					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes					
<input type="checkbox"/> No					
Well Contractor Certification					
Steffl M.j. Well Co 34480 STEFFL, M.					
License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock		Aquifer Quat. Buried Artes. Aquifer			
Last Strat Sand-gray		Depth to Bedrock ft.			
County Well Index Online Report		433231		Printed 6/28/2008 HE-01205-07	

Minnesota Unique Well No.

433242

County Stearns
 Quad Lake Koronis
 Quad ID 141C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/22/1991
 Update Date 08/20/1993
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name GNIFFKE, KENNETH/MARILYN Township Range Dir Section Subsections Elevation 1241 ft. 7.5 minute topographic map (+/- 5 feet) 122 32 W 20 BDBADA Elevation Method</p>	<p>Well Depth 147 ft. Depth Completed 147 ft. Date Well Completed 08/29/1987 Drilling Method Non-specified Rotary</p>																																																	
<p>Well Address RR 3 PAYNESVILLE MN 56362</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>GRAVEL & BOULDERS</td> <td>YELLOW</td> <td></td> <td>0</td> <td>64</td> </tr> <tr> <td>CLAY</td> <td>BROWN</td> <td></td> <td>64</td> <td>70</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>70</td> <td>94</td> </tr> <tr> <td>SAND</td> <td>BLUE</td> <td></td> <td>94</td> <td>97</td> </tr> <tr> <td>CLAY & SAND STREAKS</td> <td>BLUE</td> <td></td> <td>97</td> <td>125</td> </tr> <tr> <td>SAND</td> <td>BLUE</td> <td></td> <td>125</td> <td>147</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	GRAVEL & BOULDERS	YELLOW		0	64	CLAY	BROWN		64	70	CLAY	BLUE		70	94	SAND	BLUE		94	97	CLAY & SAND STREAKS	BLUE		97	125	SAND	BLUE		125	147	<p>Drilling Fluid Bentonite</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>5 in. to 137 ft.</td> <td>lbs./ft.</td> <td>9 in. to 147 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>12</td> <td>10</td> <td>137 ft. and 147 ft.</td> </tr> </tbody> </table> <p>Static Water Level 80 ft. from Land surface Date Measured 08/29/1987</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	5 in. to 137 ft.	lbs./ft.	9 in. to 147 ft.	Diameter	Slot/Gauze	Length	Set Between	4	12	10	137 ft. and 147 ft.
	Geological Material	Color	Hardness	From	To																																													
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4	12	10	137 ft. and 147 ft.																																															
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Name on mailbox</p> <p>System UTM - Nad83, Zone15, Meters X: 364116 Y: 5024996</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 10 to 30 ft. 0 Grout Material: Cuttings from 30 to 147 ft. 0</p> <p>Nearest Known Source of Contamination 60 feet N direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/29/1987 Manufacturer's name <u>A.Y. MCDONALD</u> Model number ___ HP <u>0.5</u> Volts <u>230</u> Length of drop Pipe <u>100</u> ft. Capacity <u>10</u> g.p.m Type <u>Submersible</u> Material <u>Plastic</u></p>																																																	
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Steffl M.j. Well Co</u> <u>34480</u> <u>STEFFL, M.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																	
	<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>																																																	
	<p>County Well Index Online Report</p>																																																	
	<p style="text-align: center;">433242</p>																																																	
<p>Printed 6/28/2008 HE-01205-07</p>																																																		

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/03/1992
Update Date 05/06/2005
Received Date

Minnesota Unique Well No.

444144

County Stearns
Quad Paynesville
Quad ID 141B

*Minnesota Statutes Chapter
1031*

Well Name Q-PETROLEUM CORP.		Well Depth 22 ft.	Depth Completed 19 ft.	Date Well Completed 03/08/1988	
Township Range Dir Section Subsections Elevation 122 32 W 17 ACDD		Elevation 1177 ft. Calc from DEM (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method			
Well Address 907 MINNESOTA ST W PAYNESVILLE MN Geological Material Color Hardness From To	Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
	Use Abandoned Status Sealed				
	Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.				
	Casing Diameter		Weight	Hole Diameter	
	Open Hole from ft. to ft.				
	Screen Diameter	Slot/Gauze	Length	Set Between	
	Static Water Level 18 ft. from Land surface Date Measured 03/17/1988				
	PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
	Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
	REMARKS MW 1 WELL SEALED 04-26-1991 BY M0054 ORIGINAL USE MW - MONITOR WELL Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 10/18/2004 System UTM - Nad83, Zone15, Meters X: 364661 Y: 5026331		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination 20 feet North West direction Tanks type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material					
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Dpra</u>	<u>M0054</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		444144	Printed 6/28/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/03/1992
Update Date 05/06/2005
Received Date

Minnesota Unique Well No.

444145

County Stearns
Quad Paynesville
Quad ID 141B

*Minnesota Statutes Chapter
1031*

Well Name Q-PETROLEUM CORP.		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		23 ft.	22 ft.	03/08/1988	
122	32 W 17 ACDB	Elevation Method 1177 ft. Calc from DEM (USGS 7.5 min or equiv.)			
		Drilling Method			
Well Address 907 MINNESOTA ST W PAYNESVILLE MN Geological Material Color Hardness From To		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Abandoned Status Sealed			
		Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		Above/Below ft.	
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Diameter		Slot/Gauze	Length Set Between
		Static Water Level 19 ft. from Land surface Date Measured 03/12/1988			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
		REMARKS MW 2 WELL SEALED 04-26-1991 BY M0054 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Located Minnesota Department of Health		Nearest Known Source of Contamination 25 feet E direction Tanks type			
Method GPS SA Off (averaged)		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Unique Number Verification N/A		Pump <input type="checkbox"/> Not Installed Date Installed			
Date 10/18/2004		Manufacturer's name Model number HP Volts			
System UTM - Nad83, Zone15, Meters		Length of drop Pipe ft. Capacity g.p.m. Type Material			
X: 364649 Y: 5026347		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Dpra</u> <u>M0054</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		444145	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

450012

County Stearns
 Quad Lake Koronis
 Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/07/1991
 Update Date 08/20/1993
 Received Date

Minnesota Statutes Chapter 1031

Well Name FASEN, MARVIN/BERNADINE		Well Depth 155 ft.	Depth Completed 155 ft.	Date Well Completed 07/08/1988	
Township Range Dir Section Subsections Elevation 122 32 W 20 BDBCAD Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary			
Well Address 29992 23 SH PAYNESVILLE MN 56362 Geological Material Color Hardness From To GRAVEL ORANGE 0 16 CLAY ORANGE 16 25 CLAY & GRAVEL STREAKS YELLOW SOFT 25 70 CLAY BLUE HARD 70 119 COARSE SAND BLUE 119 121 CLAY BLUE SOFT 121 129 COARSE SAND BLUE 129 130 CLAY BLUE SOFT 130 143 SAND STREAKY BLUE 143 155		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.			
		Casing Diameter 5 in. to 145 ft.	Weight lbs./ft.	Hole Diameter 9 in. to 155 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make JOHNSON	Type stainless steel	
		Diameter 4	Slot/Gauze 18	Length 10	Set Between 145 ft. and 155 ft.
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Address verification System UTM - Nad83, Zone15, Meters X: 364028 Y: 5024943		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination 70 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/09/1988 Manufacturer's name A.Y. MCDONALD Model number HP 0.75 Volts 230 Length of drop Pipe 120 ft. Capacity 10 g.p.m Type Submersible Material Plastic			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Well Contractor Certification Steffl M.j. Well Co 34480 STEFFL, M. License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		450012		Printed 6/28/2008 HE-01205-07	

Minnesota Unique Well No.

450835

County Stearns
 Quad Lake Koronis
 Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/31/1991
 Update Date 08/20/1993
 Received Date

<p>Well Name PAYNESVILLE ILS. Township Range Dir Section Subsections Elevation 1182 ft. 122 32 W 17 DDCCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 140 ft. Depth Completed 124 ft. Date Well Completed 08/16/1988 Drilling Method Non-specified Rotary</p>																																																																														
<p>Well Address HWY 23 PAYNESVILLE MN 56362</p>	<p>Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Irrigation</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p>																																																																														
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr><td>DIRT</td><td>BLACK</td><td></td><td>0</td><td>1</td></tr> <tr><td>SAND & GRAVEL</td><td></td><td></td><td>1</td><td>28</td></tr> <tr><td>SAND BLUE CLAY</td><td>BLUE</td><td></td><td>28</td><td>30</td></tr> <tr><td>MEDIUM TO COARSE SAND</td><td></td><td></td><td>30</td><td>42</td></tr> <tr><td>CLAY</td><td>BLUE</td><td></td><td>42</td><td>72</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>72</td><td>94</td></tr> <tr><td>SAND</td><td></td><td></td><td>94</td><td>96</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>96</td><td>99</td></tr> <tr><td>SAND</td><td></td><td></td><td>99</td><td>100</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td></td><td>100</td><td>112</td></tr> <tr><td>DIRTY SAND</td><td></td><td></td><td>112</td><td>115</td></tr> <tr><td>NICE SAND MEDIUM TO COARSE</td><td></td><td></td><td>115</td><td>124</td></tr> <tr><td>SAND</td><td>BLACK</td><td></td><td>124</td><td>140</td></tr> </tbody> </table>		Color	Hardness	From	To	DIRT	BLACK		0	1	SAND & GRAVEL			1	28	SAND BLUE CLAY	BLUE		28	30	MEDIUM TO COARSE SAND			30	42	CLAY	BLUE		42	72	CLAY	YELLOW		72	94	SAND			94	96	CLAY	YELLOW		96	99	SAND			99	100	CLAY	YELLOW		100	112	DIRTY SAND			112	115	NICE SAND MEDIUM TO COARSE			115	124	SAND	BLACK		124	140	<p>Casing Diameter 8 in. to 111 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>40</td> <td>13</td> <td>111 ft. and 124 ft.</td> </tr> </tbody> </table> <p>Static Water Level 21 ft. from Land surface Date Measured 08/16/1988</p> <p>PUMPING LEVEL (below land surface) 46 ft. after hrs. pumping 150 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer MERRILL Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between	8	40	13	111 ft. and 124 ft.
	Color	Hardness	From	To																																																																											
DIRT	BLACK		0	1																																																																											
SAND & GRAVEL			1	28																																																																											
SAND BLUE CLAY	BLUE		28	30																																																																											
MEDIUM TO COARSE SAND			30	42																																																																											
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SAND			94	96																																																																											
CLAY	YELLOW		96	99																																																																											
SAND			99	100																																																																											
CLAY	YELLOW		100	112																																																																											
DIRTY SAND			112	115																																																																											
NICE SAND MEDIUM TO COARSE			115	124																																																																											
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8	40	13	111 ft. and 124 ft.																																																																												
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Information from owner Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 364755 Y: 5025524</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 8 to 110 ft. 0</p> <p>Nearest Known Source of Contamination 50 feet direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/18/1988 Manufacturer's name GOULDS Model number 15OH10-4 HP 10 Volts 230 Length of drop Pipe 102 ft. Capacity g.p.m Type Submersible Material Steel (black or low carbon)</p>																																																																														
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-black Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Thein Well Co. 34050 THEIN, R. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																														
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">450835</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/28/2008 HE-01205-07</p>																																																																														

Minnesota Unique Well No.

511855

County Stearns
 Quad Lake Koronis
 Quad ID 141C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/22/1991
 Update Date 08/20/1993
 Received Date

Minnesota Statutes Chapter 103I

Well Name HEINEMAN, GARY		Well Depth 187 ft.	Depth Completed 187 ft.	Date Well Completed 11/07/1989
Township Range Dir Section Subsections Elevation 122 32 W 20 BDBDBA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary		
Well Address 29958 23 SH PAYNESVILLE MN 56362		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter 4 in. to 182 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES	Make SMITH	Type stainless steel
Geological Material	Color	Hardness	From	To
GRAVEL			0	91
CLAY			91	100
GRAVEL			100	140
CLAY			140	170
WATER SAND			170	187
		Static Water Level 45 ft. from Land surface Date Measured 11/07/1989		
		PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 12 g.p.m.		
		Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 30 ft. 0		
Located Minnesota Geological Survey	Method Digitized - scale 1:24,000 or larger (Digitizing Table)	Nearest Known Source of Contamination _feet _direction _type		
Unique Number	Date N/A	Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Verification Information from owner	System UTM - Nad83, Zone15.	X: 364081	Y: 5024957	Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/13/1989 Manufacturer's name FLINT & WALLING Model number __ HP 0.75 Volts Length of drop Pipe 160 ft. Capacity _g.p.m Type Submersible Material Plastic
System UTM - Nad83, Zone15. Meters				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Well Contractor Certification Torgerson Well Co. 27056 TORGERSON, S. License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand	Depth to Bedrock ft.			

County Well Index Online Report	511855	Printed 6/28/2008 HE-01205-07
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Minnesota Unique Well No.

589697

County Stearns
 Quad Paynesville
 Quad ID 141B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 09/30/1998
 Update Date 10/12/2004
 Received Date

Well Name STRODTMAN, HARRY&THERESA				Well Depth 117 ft.	Depth Completed 117 ft.	Date Well Completed 04/23/1997																																																																						
Township Range Dir Section Subsections Elevation 122 32 W 17 BDCC				Elevation Method Calc from DEM (USGS 7.5 min or equiv.)																																																																								
Well Address 514 GRAND ST PAYNESVILLE MN 56362 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>LOAM</td><td>BLACK</td><td>MEDIUM</td><td>0</td><td>1</td></tr> <tr><td>GRAVEL</td><td>YELLOW</td><td>MEDIUM</td><td>1</td><td>18</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td>MEDIUM</td><td>18</td><td>25</td></tr> <tr><td>SAND 18 SLOT</td><td>YELLOW</td><td></td><td>25</td><td>27</td></tr> <tr><td>CLAY</td><td>BLUE</td><td>MEDIUM</td><td>27</td><td>30</td></tr> <tr><td>SAND 18 SLOT</td><td>TAN</td><td></td><td>30</td><td>44</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>MEDIUM</td><td>44</td><td>74</td></tr> <tr><td>CLAY</td><td>GREEN</td><td>MEDIUM</td><td>74</td><td>81</td></tr> <tr><td>SAND 12 SLOT</td><td>TAN</td><td></td><td>81</td><td>82</td></tr> <tr><td>CLAY</td><td>TAN/GRN</td><td>MEDIUM</td><td>82</td><td>100</td></tr> <tr><td>CLAY</td><td></td><td>MEDIUM</td><td>100</td><td>112</td></tr> <tr><td>SAND</td><td>GRAY</td><td></td><td>112</td><td>117</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>SOFT</td><td>117</td><td>117</td></tr> </tbody> </table>				Geological Material	Color	Hardness	From	To	LOAM	BLACK	MEDIUM	0	1	GRAVEL	YELLOW	MEDIUM	1	18	CLAY	YELLOW	MEDIUM	18	25	SAND 18 SLOT	YELLOW		25	27	CLAY	BLUE	MEDIUM	27	30	SAND 18 SLOT	TAN		30	44	CLAY	GRAY	MEDIUM	44	74	CLAY	GREEN	MEDIUM	74	81	SAND 12 SLOT	TAN		81	82	CLAY	TAN/GRN	MEDIUM	82	100	CLAY		MEDIUM	100	112	SAND	GRAY		112	117	CLAY	GRAY	SOFT	117	117	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
				Geological Material	Color	Hardness	From	To																																																																				
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PUMPING LEVEL (below land surface) 40 ft. after 0.5 hrs. pumping 50 g.p.m.																																																																												
Well Head Completion Pitless adapter manufacturer MERRILL Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																												
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Other from 0 to 40 ft. 4 bags Grout Material: Cuttings from 40 to 117 ft.																																																																												
Nearest Known Source of Contamination 130 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																												
Pump <input type="checkbox"/> Not Installed Date Installed 04/22/1997 Manufacturer's name LOWARA Model number 101S05 HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m Type Submersible Material																																																																												
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																												
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																												

NO REMARKS

Located Minnesota Department of Health Method GPS SA Off (averaged)
 Unique Number Verification N/A Date 10/18/2004
 System UTM - Nad83, Zone15, Meters X: 364043 Y: 5026270

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Steffl M.j. Well Co</u>	<u>34480</u> <u>DAHL, J.</u>
		License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		589697	Printed 6/28/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 09/30/1998
Update Date 01/16/2002
Received Date

Minnesota Unique Well No.

599745

County Stearns
Quad Paynesville
Quad ID 141B

*Minnesota Statutes Chapter
1031*

Well Name MEAGHER, PATRICK				Well Depth 64 ft.		Depth Completed 64 ft.		Date Well Completed 05/14/1998	
Township Range Dir Section Subsections Elevation 122 32 W 17 CBAA				Elevation 1174 ft. Calc from DEM (USGS 7.5 min or equiv.)		Elevation Method			
Drilling Fluid Bentonite				Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.					
Use Domestic									
Casing Type Plastic				Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Casing Diameter			Weight			Hole Diameter			
4 in. to 44 ft.			lbs./ft.			8 in. to 64 ft.			
Open Hole from ft. to ft.									
Screen YES		Make EAGLE		Type plastic					
Diameter		Slot/Gauze		Length		Set Between			
		16		20		44 ft. and 64 ft.			
Static Water Level 15 ft. from Land surface Date Measured 05/14/1998									
PUMPING LEVEL (below land surface) 45 ft. after 2 hrs. pumping 25 g.p.m.									
Well Head Completion Pitless adapter manufacturer MERRILL Model SPK <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)									
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 10/18/2004 System UTM - Nad83, Zone15, Meters X: 363884 Y: 5026202</p>				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 33 ft.					
				Nearest Known Source of Contamination 52 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
				Pump <input type="checkbox"/> Not Installed Date Installed 05/18/1998 Manufacturer's name GRUNDFOS Model number __ HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity __g.p.m Type Submersible Material					
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

First Bedrock	Aquifer	Well Contractor Certification		
Last Strat	Depth to Bedrock ft.	<u>Don's Pump & Well</u>	<u>61584</u>	<u>MEULEBROEK, D</u>
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		599745	Printed 6/28/2008 HE-01205-07	

SITE SUMMARY

Site Name: Pelican Rapids

Fire Department: Pelican Rapids Fire Department
709 5th Street SE
Pelican Rapids, MN 56572

Site Contact: Trevor Steeves, Fire Chief
218-863-5211
prfd@loretel.net

Training Location: 2nd Avenue NW and 4th Street, Pelican Rapids

Type of foam used in training: AFFF: U.S. First Strike
Class A: Ansul Silv-ex

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AFFF: 5 gallons
Class A: 5 gallons

Nearest surface water: Pelican River, less than 1/4 mile south

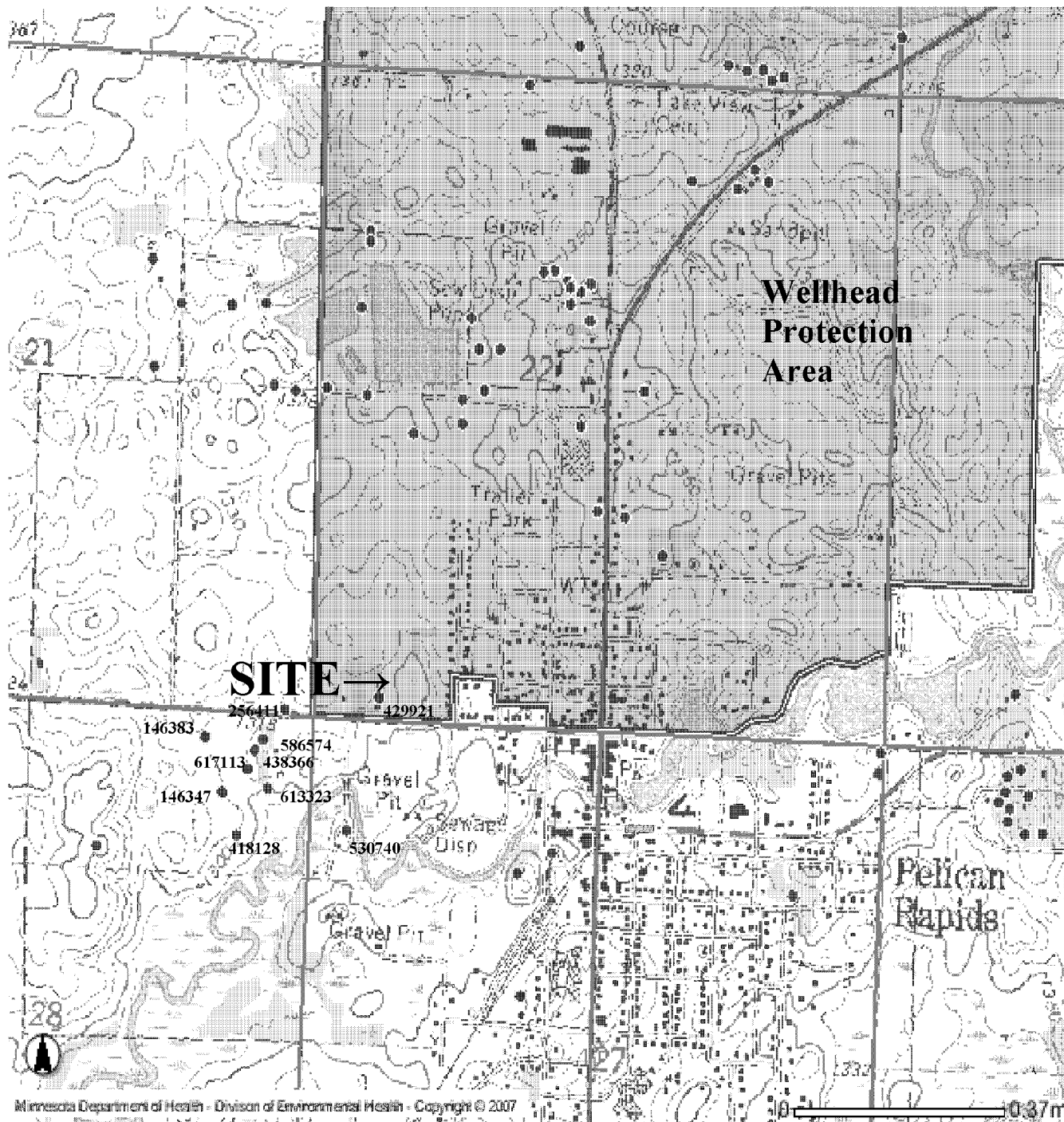
Nearest wetland: Less than 1/4 mile south

Nearest water well: At or adjacent to training site

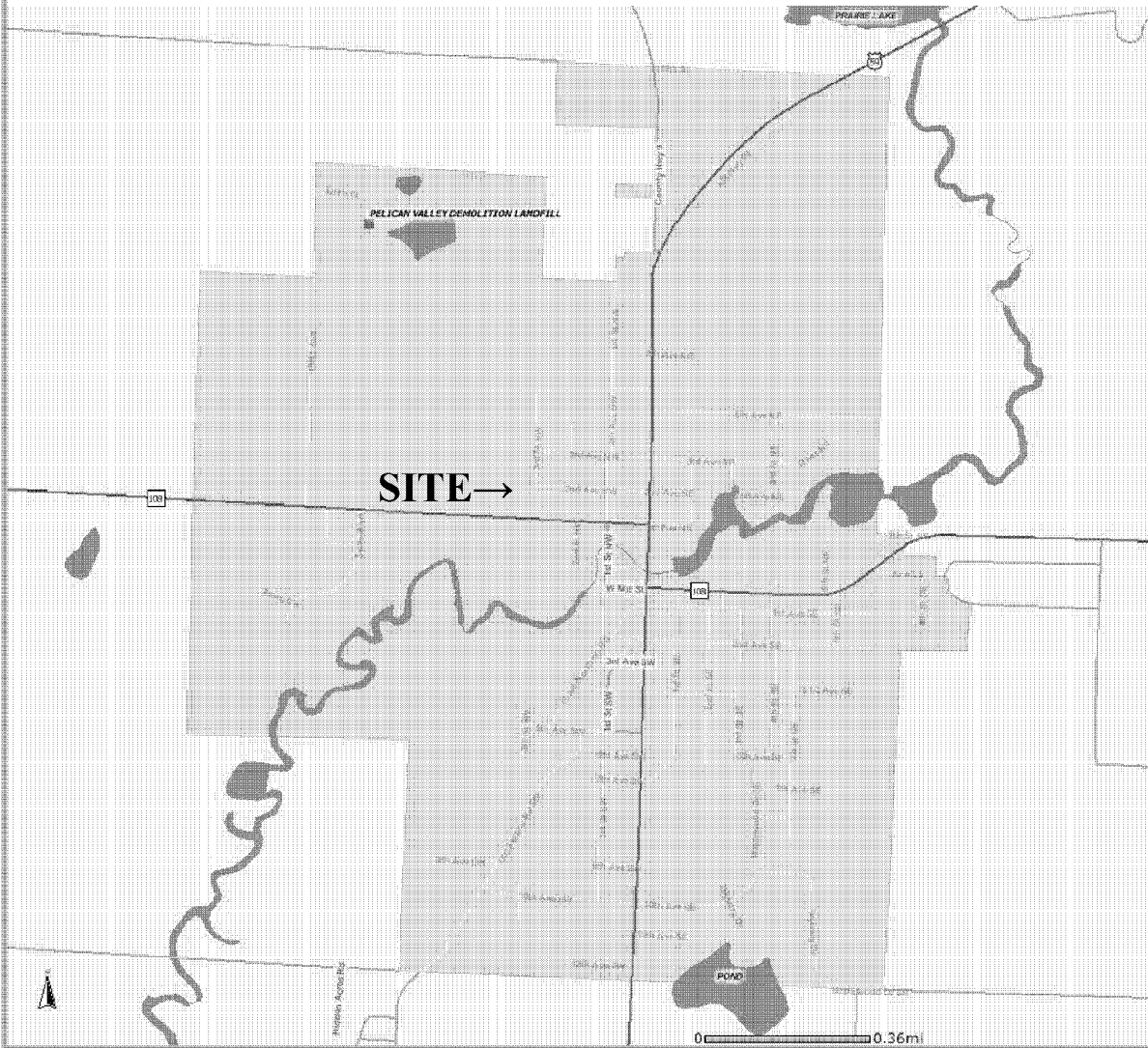
Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 16

PELICAN RAPIDS CWI Well Map



Pelican Rapids *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

146347

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
 Update Date 08/17/2000
 Received Date

<p>Well Name SWAN, PAUL Township Range Dir Section Subsections Elevation 1311 ft. 136 43 W 28 AABDCD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address PELICAN RAPIDS MN</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>SANDY CLAY</td> <td>YELLOW</td> <td></td> <td>2</td> <td>21</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>21</td> <td>24</td> </tr> <tr> <td>SAND</td> <td>YELLOW</td> <td></td> <td>24</td> <td>40</td> </tr> <tr> <td>SAND FINE TO MEDIUM</td> <td>GRAY</td> <td></td> <td>40</td> <td>80</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	2	SANDY CLAY	YELLOW		2	21	CLAY	BLUE		21	24	SAND	YELLOW		24	40	SAND FINE TO MEDIUM	GRAY		40	80	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth 80 ft.</td> <td>Depth Completed 80 ft.</td> <td>Date Well Completed 10/30/1978</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Domestic</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.</td> </tr> <tr> <td>Casing Diameter 4 in. to 70 ft.</td> <td>Weight 11 lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td>Screen YES</td> <td>Make JOHNSON</td> <td>Type stainless steel</td> </tr> <tr> <td>Diameter 4</td> <td>Slot/Gauze 12</td> <td>Length 4</td> </tr> <tr> <td colspan="3">Set Between 70 ft. and 74 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 15 ft. from Land surface Date Measured 10/30/1978</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) 18 ft. after 2 hrs. pumping 25 g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 8 to 50 ft.</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/08/1978 Manufacturer's name FLINT & WALLING Model number 5BA8 HP 0.5 Volts 230 Length of drop Pipe 54 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification Robertson Well Co. 26144 CATOE, R. License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> <tr> <td colspan="3">First Bedrock Aquifer Quat. Bnried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</td> </tr> <tr> <td colspan="2">County Well Index Online Report</td> <td style="text-align: right;">Printed 6/28/2008 HE-01205-07</td> </tr> </table>	Well Depth 80 ft.	Depth Completed 80 ft.	Date Well Completed 10/30/1978	Drilling Method Non-specified Rotary			Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Domestic			Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.			Casing Diameter 4 in. to 70 ft.	Weight 11 lbs./ft.	Hole Diameter	Open Hole from ft. to ft.			Screen YES	Make JOHNSON	Type stainless steel	Diameter 4	Slot/Gauze 12	Length 4	Set Between 70 ft. and 74 ft.			Static Water Level 15 ft. from Land surface Date Measured 10/30/1978			PUMPING LEVEL (below land surface) 18 ft. after 2 hrs. pumping 25 g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 8 to 50 ft.			Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/08/1978 Manufacturer's name FLINT & WALLING Model number 5BA8 HP 0.5 Volts 230 Length of drop Pipe 54 ft. 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Minnesota Unique Well No.

146383

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
 Update Date 08/17/2000
 Received Date

<p>Well Name LUNDHAGEN, NORMAN Township Range Dir Section Subsections Elevation 1307 ft. 136 43 W 28 AABACB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 75 ft. Depth Completed 75 ft. Date Well Completed 11/03/1978 Drilling Method Non-specified Rotary</p>																																	
<p>Well Address PELICAN RAPIDS MN</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td></td> <td>0</td> <td>1</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td></td> <td>1</td> <td>22</td> </tr> <tr> <td>SAND FINE</td> <td>GRAY</td> <td></td> <td>22</td> <td>65</td> </tr> <tr> <td>SAND MEDIUM</td> <td>GRAY</td> <td></td> <td>65</td> <td>75</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	1	CLAY	YELLOW		1	22	SAND FINE	GRAY		22	65	SAND MEDIUM	GRAY		65	75	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.</p> <p>Casing Diameter 4 in. to 71 ft. Weight 11 lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>18</td> <td>4</td> <td>71 ft. and 75 ft.</td> </tr> </tbody> </table> <p>Static Water Level 12 ft. from Land surface Date Measured 11/03/1978</p> <p>PUMPING LEVEL (below land surface) 25 ft. after 2 hrs. pumping 20 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between	4	18	4	71 ft. and 75 ft.
	Geological Material	Color	Hardness	From	To																													
	TOP SOIL	BLACK		0	1																													
	CLAY	YELLOW		1	22																													
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	4	18	4	71 ft. and 75 ft.																														
	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A Verification Information from neighbor</p> <p>System UTM - Nad83, Zone15, Meters X: 262602 Y: 5162141</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 8 to 45 ft.</p>																																
		<p>Nearest Known Source of Contamination ___feet ___direction ___type</p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																
<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/08/1978 Manufacturer's name FLINT AND WALLING Model number ___ HP 0.5 Volts 230 Length of drop Pipe 54 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized</p>																																		
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<p>First Bedrock Aquifer Quat. Bnried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Well Contractor Certification Robertson Well Co. 26144 WAGNER, W. License Business Name Lic. Or Reg. No. Name of Driller</p>																																	
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">146383</p> <p style="text-align: right;">Printed 6/28/2008 HE-01205-07</p>																																	

Minnesota Unique Well No.

256411

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date
 Update Date 09/20/2004
 Received Date

Minnesota Statutes Chapter 103I

Well Name USGS 133	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	17 ft.	17 ft.	08/01/1979
136 43 W 21 DDDDC Elevation Method	7.5 minute topographic map (+/- 5 feet)		
Drilling Method --			

<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> <tr> <td>ROADFILL</td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>TILL, SANDY</td> <td>BROWN</td> <td>2</td> <td>17</td> </tr> </table>	Color	Hardness	From	To	ROADFILL		0	2	TILL, SANDY	BROWN	2	17	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Color	Hardness	From	To												
	ROADFILL		0	2												
	TILL, SANDY	BROWN	2	17												
	--	From Ft. to Ft.														
	Use Scientific Investigation															
	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No															
	No Above/Below ft.															
	Casing Diameter		Weight	Hole Diameter												
	Open Hole from ft. to ft.															
Screen		Make	Type													
Diameter	Slot/Gauze	Length	Set Between													
Static Water Level																
ft. from Date Measured																
PUMPING LEVEL (below land surface)																
ft. after hrs. pumping g.p.m.																
Well Head Completion																
Pitless adapter manufacturer Model																
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																

<p><i>NO REMARKS</i></p> <p>Located United States Geological Survey</p> <p>Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number</p> <p>Verification Information from owner</p> <p>Date 09/27/2004</p> <p>System UTM - Nad83, Zone15, Meters</p> <p>X: 262827 Y: 5162208</p>	Grouting Information	Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number ___ HP ___ Volts				
Length of drop Pipe _ft. Capacity _g.p.m. Type Material				

<p>First Bedrock</p> <p>Aquifer</p> <p>Last Strat Till-brown</p> <p>Depth to Bedrock ft.</p>	Abandoned Wells	Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
United States Geological Survey		USGS		
License Business Name		Lic. Or Reg. No. Name of Driller		

County Well Index Online Report	256411	Printed 6/28/2008 HE-01205-07
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Minnesota Unique Well No.

418128

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
 Update Date 03/11/2005
 Received Date

Well Name EVENSON, KERRY Township Range Dir Section Subsections Elevation 1304 ft. 136 43 W 28 AADCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 80 ft.	Depth Completed 80 ft.	Date Well Completed 05/23/1986
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 58 ft.	Weight lbs./ft.	Hole Diameter
Well Address PELICAN RAPIDS MN 56572		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
Geological Material TOP SOIL CLAY SAND SAND SILTY CLAY	Color BLACK YELLOW YELLOW GRAY GRAY	Hardness	From 0 1 16 30 65	To 1 16 30 65 80
		Static Water Level 15 ft. from Land surface Date Measured 05/23/1986		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS PLASTIC CASING RIVERREST BLK 1 LOT 7		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 10 to 50 ft.		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 90 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information from owner Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/28/1986 Manufacturer's name FLINT-WALLING Model number 4F10D05-30K HP 0.5 Volts 230 Length of drop Pipe 39 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized		
System UTM - Nad83, Zone15, Meters X: 262691 Y: 5161898		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Robertson Well Co. 26144 CATOE, R. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Unknown deposit type-gray		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Printed 6/28/2008 HE-01205-07
County Well Index Online Report		418128		

Minnesota Unique Well No.

429921

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 01/31/1991
 Update Date 02/04/2004
 Received Date

Minnesota Statutes Chapter 103I

Well Name MAGNUSSON, MIKE		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		107 ft.	107 ft.	06/21/1988	
136	43 W 22 CCCDAC	Elevation Method topographic map (+/- 5 feet)			
Drilling Method		Non-specified Rotary			
Well Address P.O.BOX 50 PELICAN RAPIDS MN 56572 Geological Material Color Hardness From To CLAY YELLOW SOFT 0 21 CLAY-GRAVEL BLUE HARD 21 32 GRAVEL SAND GRAY SOFT 32 52 GRAVEL CLAY GRAY HARD 52 84 SAND CLAY BROWN SOFT 84 102 SAND BROWN SOFT 102 107		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Bentonite	From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic		Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No
		No Above/Below 1 ft.			
Casing Diameter		Weight	Hole Diameter		
4 in. to 103 ft.		lbs.ft.	6.75 in. to 107 ft.		
Open Hole from ft. to ft.					
Screen YES		Make JOHNSON	Type stainless steel		
Diameter	Slot/Gauze	Length	Set Between		
4	12	4	103 ft. and 107 ft.		
Static Water Level					
15 ft. from Land surface Date Measured 06/21/1988					
PUMPING LEVEL (below land surface)					
107 ft. after 1 hrs. pumping 60 g.p.m.					
Well Head Completion					
Pitless adapter manufacturer MONITOR Model 7PSB4554C1					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONI.Y)					
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
PLASTIC CASING RJ MILLER ADDN LOTS 3-5		Grout Material: Neat Cement from to ft.			
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)			
Unique Number		Date N/A			
Verification Information from owner		System UTM - Nad83, Zone15, Meters X: 263092 Y: 5162238			
System UTM - Nad83, Zone15, Meters		X: 263092 Y: 5162238			
Nearest Known Source of Contamination		100 feet South East direction Septic tank/drain field type			
Well disinfected upon completion?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input checked="" type="checkbox"/> Not Installed		Date Installed 06/22/1988			
Manufacturer's name STA-RITE		Model number 8P4C02S			
HP 0.5 Volts 230		Length of drop Pipe 80 ft. Capacity 10 g.p.m			
Type Submersible		Material Plastic			
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification		Antonsen Well Co. 56132 DAVE & JERRY			
License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock		Aquifer Quat. Buried Artes. Aquifer			
Last Strat Sand-brown		Depth to Bedrock ft.			
County Well Index Online Report		429921		Printed 6/28/2008 HF-01205-07	

Minnesota Unique Well No.

438366

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/31/1991
 Update Date 08/17/2000
 Received Date

Minnesota Statutes Chapter 103I

Well Name PAULSON, CHUCK		Well Depth 80 ft.	Depth Completed 80 ft.	Date Well Completed 09/01/1987																								
Township Range Dir Section Subsections Elevation 136 43 W 28 AAABCD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --																										
Well Address BOX 1 PELICAN RAPIDS MN 56572 Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BLACK</td> <td></td> <td>0</td> <td>1</td> </tr> <tr> <td>YELLOW</td> <td></td> <td>1</td> <td>28</td> </tr> <tr> <td>GRAY</td> <td></td> <td>28</td> <td>51</td> </tr> <tr> <td>GRAY</td> <td></td> <td>51</td> <td>75</td> </tr> <tr> <td>BLUE</td> <td></td> <td>75</td> <td>80</td> </tr> </tbody> </table>		Color	Hardness	From	To	BLACK		0	1	YELLOW		1	28	GRAY		28	51	GRAY		51	75	BLUE		75	80	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
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		BLUE		75	80																							
		Use Domestic																										
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.																										
		Casing Diameter 4 in. to 69 ft.	Weight lbs./ft.	Hole Diameter 8 in. to 80 ft.																								
Open Hole from ft. to ft.																												
Screen YES	Make JOHNSON	Type stainless steel																										
Diameter 4	Slot/Gauze 20	Length 4	Set Between 69 ft. and 73 ft.																									
Static Water Level 20 ft. from Land surface Date Measured 09/01/1987																												
PUMPING LEVEL (below land surface) 30 ft. after 1 hrs. pumping 15 g.p.m.																												
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																												
REMARKS PLASTIC CASING		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 10 to 50 ft.																										
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 85 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
Unique Number Verification Information from owner Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/17/1987 Manufacturer's name AERMOTOR Model number A12B-50 _ IP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 12 g.p.m. Type Submersible Material Plastic																										
System UTM - Nad83, Zone15, Meters X: 262742 Y: 5162108		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																										
		Well Contractor Certification Robertson Well Co. 26144 CATOE, R. License Business Name Lic. Or Reg. No. Name of Driller																										
First Bedrock Last Strat Clay-gray		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.																										
County Well Index Online Report		438366		Printed 6/28/2008 HE-01205-07																								

Minnesota Unique Well No.

530740

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/22/1994
 Update Date 07/13/2004
 Received Date

Minnesota Statutes Chapter 1031

Well Name KONICKA, BERNARDINE		Well Depth 65 ft.	Depth Completed 65 ft.	Date Well Completed 09/22/1993																
Township Range Dir Section Subsections Elevation 136 43 W 27 BBCACB Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary																		
Well Address 620 108 HY PELICAN RAPIDS MN 56572 Geological Material <table style="width:100%; border:none;"> <tr> <td style="width:20%;">Color</td> <td style="width:10%;">Hardness</td> <td style="width:10%;">From</td> <td style="width:10%;">To</td> </tr> <tr> <td>GRAVEL & ROCK</td> <td>GRAY SOFT</td> <td>0</td> <td>40</td> </tr> <tr> <td>SANDY CLAY</td> <td>GRAY SOFT</td> <td>40</td> <td>45</td> </tr> <tr> <td>FINE CLEAN SAND</td> <td>GRAY SOFT</td> <td>45</td> <td>65</td> </tr> </table>		Color	Hardness	From	To	GRAVEL & ROCK	GRAY SOFT	0	40	SANDY CLAY	GRAY SOFT	40	45	FINE CLEAN SAND	GRAY SOFT	45	65	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To															
		GRAVEL & ROCK	GRAY SOFT	0	40															
		SANDY CLAY	GRAY SOFT	40	45															
		FINE CLEAN SAND	GRAY SOFT	45	65															
		Use Domestic																		
		Casing Type Plastic Joint Glued Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																		
		Casing Diameter 4 in. to 57 ft.		Weight lbs./ft.	Hole Diameter 6.25 in. to 65 ft.															
		Open Hole from ft. to ft.																		
		Screen YES Make WESCO Type stainless steel																		
Diameter 4		Slot/Gauze 6	Length 8	Set Between 57 ft. and 65 ft.																
Static Water Level 6 ft. from Land surface Date Measured 09/22/1993																				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																				
Well Head Completion Pitless adapter manufacturer MAASS Model 4JCLP <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																				
NO REMARKS Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 07/12/2004 System UTM - Nad83, Zone15, Meters X: 263001 Y: 5161910		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
		Grout Material: Bentonite from 7 to 50 ft. 3 bags																		
		Nearest Known Source of Contamination 130 feet W direction Body of water type																		
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
		Pump <input type="checkbox"/> Not Installed Date Installed 09/29/1993 Manufacturer's name GRUNDFOS Model number JS10-05 HP 0.5 Volts 220 Length of drop Pipe 40 ft. Capacity 10 g.p.m. Type Submersible Material																		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
		Well Contractor Certification Olson Well Drilling 14229 OLSON, P. License Business Name Lic. Or Reg. No. Name of Driller																		
		First Bedrock		Aquifer Quat. Buried Artes. Aquifer																
		Last Strat Sand-gray		Depth to Bedrock ft.																
County Well Index Online Report		530740		Printed 6/28/2008 HE-01205-07																

Minnesota Unique Well No.

586574

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/02/1997
 Update Date 07/14/2004
 Received Date

Minnesota Statutes Chapter 1031

Well Name FARNAM, DUANE B.		Well Depth 99 ft.	Depth Completed 99 ft.	Date Well Completed 11/29/1996	
Township Range Dir Section Subsections Elevation 136 43 W 28 AAABDB Elevation Method topographic map (1/- 5 feet)		Drilling Method Non-specified Rotary			
Well Address HY 108 W OF PELICAN MN Geological Material Color Hardness From To CLAY SAND YEL/BRN HARD 0 16 CLAY BLUE HARD 16 25 CLAY GRAVEL BLU/GRY SOFT 25 37 SAND GRAY SFT-HRD 37 50 CLAY SAND GRY/BLU HARD 50 60 FINE SAND GRAY SOFT 60 81 SAND GRAY SOFT 81 88 FINE SAND GRAY SOFT 88 95 SAND GRAY SOFT 95 99		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.			
		Casing Diameter 4 in. to ft.	Weight lbs.ft.	Hole Diameter 8 in. to 30 ft. 6.75 in. to 99 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make JOHNSON	Type stainless steel	
		Diameter 4	Slot/Gauze 15	Length 5	Set Between 94 ft. and 99 ft.
		Static Water Level 8 ft. from Land surface Date Measured 11/29/1996			
		PUMPING LEVEL (below land surface) 99 ft. after 1 hrs. pumping 75 g.p.m.			
		Well Head Completion Pitless adapter manufacturer MONITOR Model 7PS45B54C0 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 07/13/2004 System UTM - Nad83, Zone 15, Meters X: 262766 Y: 5162134		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 31 ft.			
		Nearest Known Source of Contamination 60 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed 12/00/1996 Manufacturer's name STA-RITE Model number 15P4D02J HP 0.75 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m. Type Submersible Material Plastic			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Well Contractor Certification Antonsen Well Co. 56132 ANTONSEN, D. License Business Name Lic. Or Reg. No. Name of Driller			
		County Well Index Online Report 586574 Printed 6/28/2008 HE-01205-07			

Minnesota Unique Well No.

613323

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/06/1999
 Update Date 03/11/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name BERG, MIKE		Well Depth	Depth Completed	Date Well Completed																								
Township Range Dir Section Subsections Elevation		81 ft.	81 ft.	06/19/1998																								
136	43 W 28 AAACDD	Elevation Method topographic map (1/- 5 feet)																										
Geological Material SAND CLAY COARSE GRAVEL BOULDERS CLAY COARSE SAND <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>YELLOW</td> <td>SOFT</td> <td>0</td> <td>1</td> </tr> <tr> <td>YELLOW</td> <td>SOFT</td> <td>2</td> <td>34</td> </tr> <tr> <td>RED</td> <td>MEDIUM</td> <td>35</td> <td>46</td> </tr> <tr> <td>BLUE</td> <td>MEDIUM</td> <td>48</td> <td>61</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>62</td> <td>81</td> </tr> </tbody> </table>		Color	Hardness	From	To	YELLOW	SOFT	0	1	YELLOW	SOFT	2	34	RED	MEDIUM	35	46	BLUE	MEDIUM	48	61	GRAY	SOFT	62	81	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	From Ft. to Ft.
		Color	Hardness	From	To																							
		YELLOW	SOFT	0	1																							
		YELLOW	SOFT	2	34																							
		RED	MEDIUM	35	46																							
		BLUE	MEDIUM	48	61																							
		GRAY	SOFT	62	81																							
		Use Domestic																										
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																										
		Casing Diameter		Weight	Hole Diameter																							
4 in. to 77 ft.		2 lbs./ft.	7 in. to 81 ft.																									
Open Hole from ft. to ft.																												
Screen YES		Make JOHNSON	Type stainless steel																									
Diameter		Slot/Gauze	Length	Set Between																								
4		12	5	77 ft. and 81 ft.																								
Static Water Level 10 ft. from Land surface Date Measured 06/19/1998																												
PUMPING LEVEL (below land surface) 10 ft. after 2 hrs. pumping 40 g.p.m.																												
Well Head Completion Pitless adapter manufacturer MONITOR Model 4B0 <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																												
NO REMARKS Located Minnesota Department of Health Unique Number Verification N/A System UTM - Nad83, Zone 15, Meters Method Digitization (Screen) - Map (1:24,000) Date 07/12/2004 X: 262779 Y: 5162014		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
		Grout Material: Bentonite from 0 to 30 ft. 3 bags																										
		Nearest Known Source of Contamination 60 feet W direction Septic tank/drain field type																										
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
		Pump <input type="checkbox"/> Not Installed Date Installed 06/19/1998 Manufacturer's name AERMOTOR Model number T12 50 HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 12 g.p.m. Type Submersible Material																										
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
		Well Contractor Certification Krueger Well Drill 03669 LINDSAY JIM License Business Name Lic. Or Reg. No. Name of Driller																										
		First Bedrock		Aquifer Quat. Buried Artes. Aquifer																								
		Last Strat Sand-gray		Depth to Bedrock ft.																								
County Well Index Online Report		613323		Printed 6/28/2008 HE-01205-07																								

Minnesota Unique Well No.

617113

County Otter Tail
 Quad Pelican Rapids
 Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 07/15/1999
 Update Date 07/13/2004
 Received Date

Minnesota Statutes Chapter 1031

Well Name AHOKAS, STEVE Township Range Dir Section Subsections Elevation 1310 ft. 136 43 W 28 AAACBC Elevation Method 7.5 minute topographic map (1/- 5 feet)		Well Depth 70 ft. Depth Completed 70 ft. Date Well Completed 09/11/1998 Drilling Method Non-specified Rotary																									
Well Address PO BOX 149 PELICAN RAPIDS MN 56572 <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SANDY CLAY</td> <td>BROWN</td> <td>HARD</td> <td>0</td> <td>18</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>18</td> <td>28</td> </tr> <tr> <td>SANDY CLAY</td> <td>BROWN</td> <td>HARD</td> <td>28</td> <td>59</td> </tr> <tr> <td>FINE SAND</td> <td>GRAY</td> <td>SOFT</td> <td>59</td> <td>70</td> </tr> </table>		Geological Material	Color	Hardness	From	To	SANDY CLAY	BROWN	HARD	0	18	SAND	BROWN	SOFT	18	28	SANDY CLAY	BROWN	HARD	28	59	FINE SAND	GRAY	SOFT	59	70	Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
		Geological Material	Color	Hardness	From	To																					
		SANDY CLAY	BROWN	HARD	0	18																					
		SAND	BROWN	SOFT	18	28																					
		SANDY CLAY	BROWN	HARD	28	59																					
		FINE SAND	GRAY	SOFT	59	70																					
		Use Domestic																									
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																									
		Casing Diameter 4 in. to 60 ft. Weight lbs./ft. Hole Diameter																									
		Open Hole from ft. to ft.																									
Screen YES Make JOHNSON Type stainless steel Diameter 4 Slot/Gauze 10 Length 10 Set Between 60 ft. and 70 ft.																											
Static Water Level 45 ft. from Land surface Date Measured 09/11/1998 PUMPING LEVEL (below land surface) 52 ft. after 1 hrs. pumping 15 g.p.m.																											
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																											
REMARKS SWAN CIRCLE Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 07/12/2004 System UTM - Nad83, Zone15, Meters X: 262722 Y: 5162062	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 40 ft. 3 bags																										
	Nearest Known Source of Contamination 62 feet North East direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material																										
	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.	Well Contractor Certification Vareberg Well Co. 03424 KRAFT, C. License Business Name Lic. Or Reg. No. Name of Driller																										
County Well Index Online Report	617113 Printed 6/28/2008 HE-01205-07																										

SITE SUMMARY

Site Name: Pierz

Fire Department: Pierz Fire Department
PO Box 340
Pierz, MN 56364

Site Contact: Brian Jay Boxer, Fire Chief
320-468-6608
pierzfire@mywdo.com

Training Location: Intersection of Highways 25 and 27, Pierz. Last training in 2005.

Type of foam used in training: AFFF: 3M

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: not specified
Class A: 25 gallons

Nearest surface water: Skunk River, less than 1/8 mile east

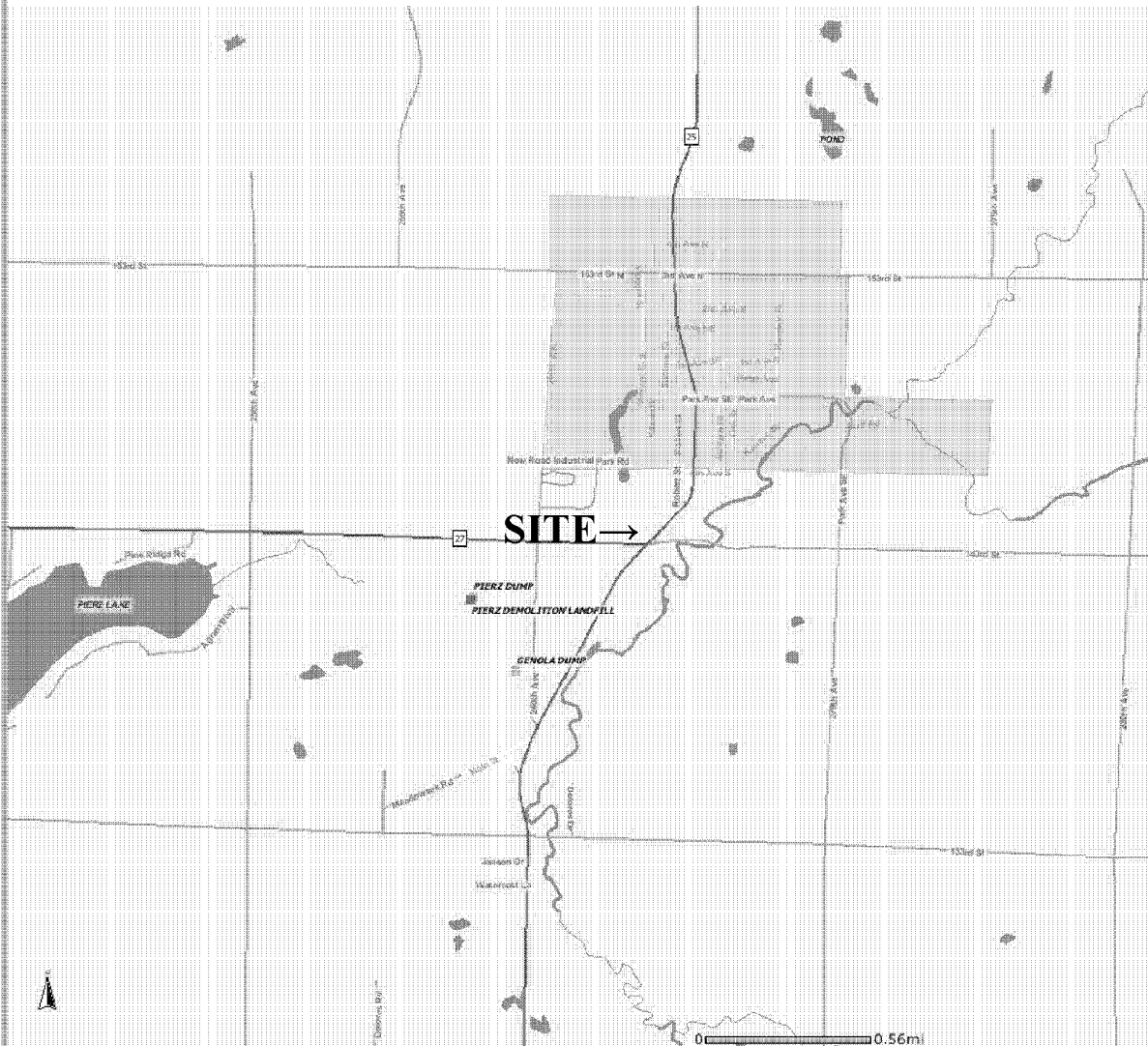
Nearest wetland: Less than 1/8 mile southeast

Nearest water well: Approximately 1/4 mile west

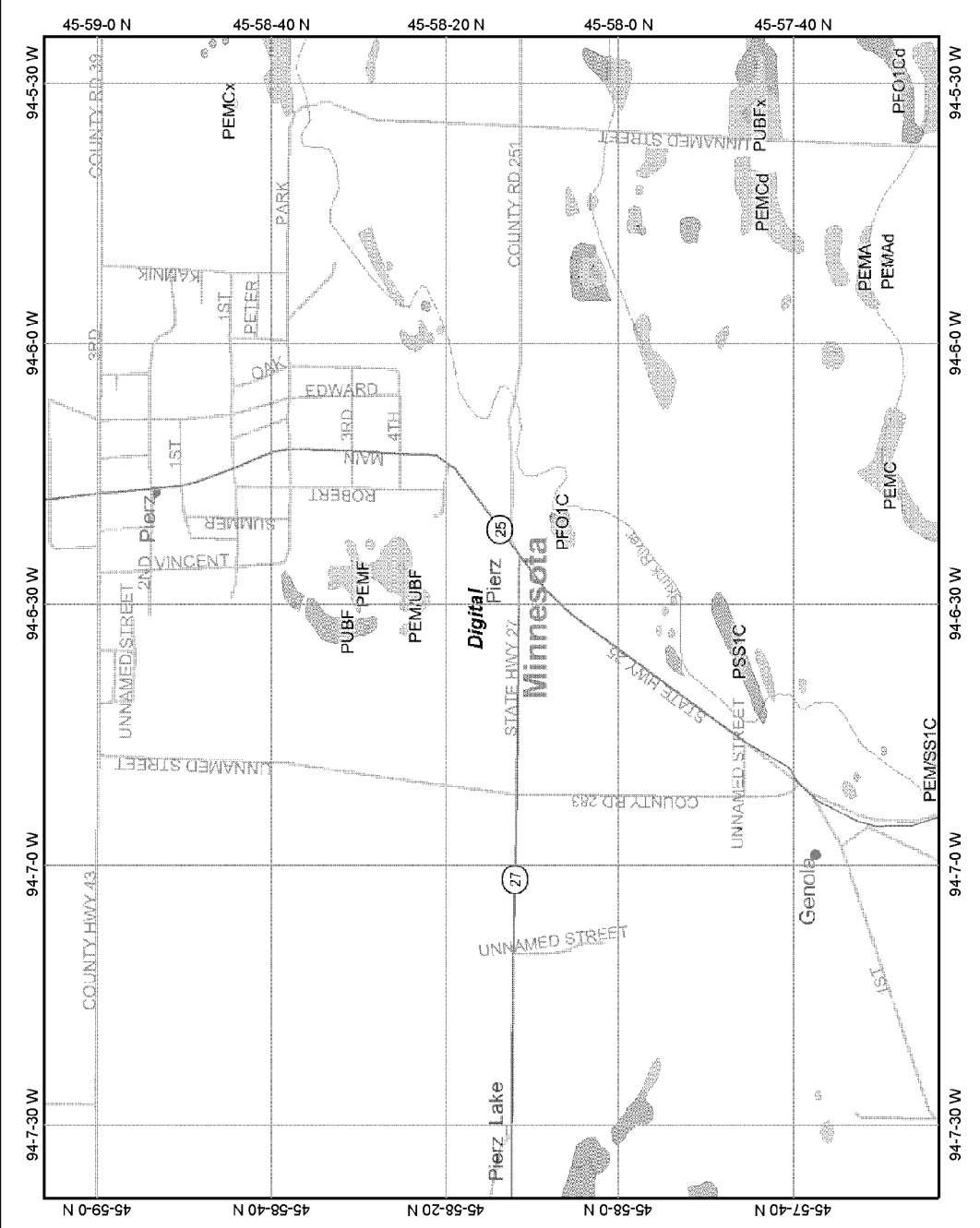
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 17

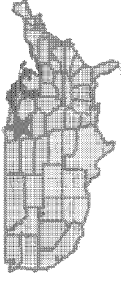
Pierz What's In My Neighborhood Map



Pierz Wetland Map



Map center: 45° 58' 15" N, 94° 6' 32" W



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:22,262

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

135966

County Morrison
 Quad Pierz
 Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
 Update Date 03/09/1999
 Received Date

Well Name GULDEN, LEROY Township Range Dir Section Subsections Elevation 1169 ft. 40 30 W 8 CCCDCC Elevation Method 7.5 minute topographic map (1/- 5 feet)		Well Depth 73 ft. Depth Completed 73 ft. Date Well Completed 06/10/1977
Drilling Method Non-specified Rotary		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.
Casing Diameter 6 in. to 73 ft. Weight 19 lbs./ft. Hole Diameter 6 in. to 73 ft.		Open Hole from 73 ft. to 73 ft.
Well Address RR 3 PIERZ MN 56364		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Geological Material GRAVEL & BOULDERS SAND CLAY GRAVEL & WATER	Color BROWN BROWN YELLOW	Hardness HARD HARD HARD
	From To 0 5 5 45 45 67 67 73	Static Water Level 25 ft. from Land surface Date Measured 06/10/1977 PUMPING LEVEL (below land surface) 45 ft. after hrs. pumping 25 g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
NO REMARKS		Nearest Known Source of Contamination 75 feet S direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information Date N/A System UTM - Nad83, Zone15, Meters X: 413823 Y: 5091329		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
First Bedrock Last Strat Gravel (+larger)		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Well Contractor Certification Donabauer Well Co. 73061 DONABAUER, G. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		135966 Printed 6/28/2008 HF-01205-07

Minnesota Unique Well No.

148454

County Morrison
 Quad Pierz
 Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 03/09/1999
 Received Date

Well Name BRAUSEN, GARY Township Range Dir Section Subsections Elevation 1168 ft. 40 30 W 8 CCCCDC Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 87 ft.	Depth Completed 87 ft.	Date Well Completed 04/11/1978	
Drilling Method Non-specified Rotary					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.			
Well Address PIERZ MN 56364					Casing Diameter 4 in. to 79 ft.	Weight 10.89 lbs./ft.	Hole Diameter	
Geological Material					Open Hole from ft. to ft.			
GRAVEL	BROWN		0	20	Screen YES	Make JOHNSON	Type stainless steel	
CLAY & ROCKS	BROWN	SFT-HRD	20	71	Diameter	Slot/Gauze	Length	
DIRTY SAND	BROWN	SOFT	71	79	2	12	8	
SAND (FINE)	GRAY	SOFT	79	87	Set Between 79 ft. and 87 ft.			
Static Water Level 29 ft. from Land surface Date Measured 04/11/1978					PUMPING LEVEL (below land surface) 49 ft. after hrs. pumping 15 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model					<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Nearest Known Source of Contamination 80 feet South East direction Septic tank/drain field type			
Unique Number Verification Other, note in remarks Date N/A					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
System UTM - Nad83, Zone15, Meters X: 413789 Y: 5091331					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material			
First Bedrock Aquifer Quat. Buried Artes. Aquifer					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Last Strat Sand-gray Depth to Bedrock ft.					Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report					Well Contractor Certification North Star Drilling 48038 FLICKER, D. License Business Name Lic. Or Reg. No. Name of Driller			
					148454		Printed 6/28/2008 HE-01205-07	

Minnesota Unique Well No.

224514

County Morrison
 Quad Pierz
 Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 04/13/1988
 Update Date 03/09/1999
 Received Date

<p>Well Name VERNIG, LEO Township Range Dir Section Subsections Elevation 1170 ft. 40 30 W 8 DCBDD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 66 ft.</td> <td style="width:33%;">Depth Completed 66 ft.</td> <td style="width:33%;">Date Well Completed 00/00/1969</td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> </table>	Well Depth 66 ft.	Depth Completed 66 ft.	Date Well Completed 00/00/1969	Drilling Method --																																													
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from neighbor</p> <p>System UTM - Naa83, Zone15, Meters X: 414593 Y: 5091632</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Nearest Known Source of Contamination _feet _direction _type</td> </tr> <tr> <td>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> <tr> <td>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Well Contractor Certification United States Geological Survey USGS KAHLHAMMER, M License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Nearest Known Source of Contamination _feet _direction _type	Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Well Contractor Certification United States Geological Survey USGS KAHLHAMMER, M License Business Name Lic. Or Reg. No. Name of Driller																																										
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<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">County Well Index Online Report</td> <td style="width:20%; text-align: center;">224514</td> <td style="width:20%; text-align: right;">Printed 6/28/2008 HE-01205-07</td> </tr> </table>	County Well Index Online Report	224514	Printed 6/28/2008 HE-01205-07																																														
County Well Index Online Report	224514	Printed 6/28/2008 HE-01205-07																																																

Minnesota Unique Well No.

427329

County Morrison
 Quad Pierz
 Quad ID 175A

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 04/05/1989
 Update Date 03/11/2005
 Received Date

Well Name LUCKING, KURT		Well Depth 78 ft.	Depth Completed 76 ft.	Date Well Completed 10/25/1986																				
Township Range Dir Section Subsections Elevation 40 30 W 17 B		Elevation 1161 ft. Calc from DEM (USGS 7.5 min or equiv.)																						
Elevation Method		Drilling Method Non-specified Rotary																						
<table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>ROCKS</td> <td>GRAY</td> <td>HARD</td> <td>0</td> <td>30</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>MEDIUM</td> <td>30</td> <td>62</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>MEDIUM</td> <td>62</td> <td>78</td> </tr> </table>		Geological Material	Color	Hardness	From	To	ROCKS	GRAY	HARD	0	30	CLAY	GRAY	MEDIUM	30	62	SAND	GRAY	MEDIUM	62	78	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																		
		ROCKS	GRAY	HARD	0	30																		
		CLAY	GRAY	MEDIUM	30	62																		
		SAND	GRAY	MEDIUM	62	78																		
		Use Domestic																						
		Casing Type Plastic	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.																				
		Casing Diameter 4 in. to 72 ft.	Weight lbs./ft.	Hole Diameter																				
		Open Hole from ft. to ft.																						
		Screen YES	Make JOINSON	Type stainless steel																				
Diameter 2	Slot/Gauze 12	Length 4	Set Between 72 ft. and 76 ft.																					
Static Water Level 20 ft. from land surface Date Measured 10/25/1986																								
PUMPING LEVEL (below land surface) 27 ft. after 1 hrs. pumping 20 g.p.m.																								
Well Head Completion Pitless adapter manufacturer MAASS Model J <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																								
REMARKS 601 - 7TH AVE. SW., LITTLE FALLS (?)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 30 to 10 ft.																						
Located	Method GPS SA On (averaged)																							
Unique Number Verification Address verification	Date N/A																							
System UTM - Nad83, Zone15, Meters	X: 413860 Y: 5090748																							
Nearest Known Source of Contamination 100 feet direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Pump <input type="checkbox"/> Not Installed Date Installed 11/05/1986 Manufacturer's name AERMOTOR Model number SD12-50 HP 0.5 Volts 230 Length of drop Pipe 57 ft. Capacity 8 g.p.m. Type Submersible Material Plastic																								
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																								

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>North Star Drilling</u> <u>48038</u> <u>BACKOWSKI, M.</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		427329 Printed 6/28/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 07/31/1993
Update Date 01/06/2005
Received Date

Minnesota Unique Well No.

522900

County Morrison
Quad Pierz
Quad ID 175A

*Minnesota Statutes Chapter
1031*

Well Name GRITZMACHER, JOE				Well Depth 75 ft.		Depth Completed 75 ft.		Date Well Completed 06/08/1993																															
Township Range Dir Section Subsections Elevation 40 30 W 8 DAD				Elevation Method 1184 ft. Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Non-specified Rotary																																	
Well Address RR 3 PIERZ MN 56364 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>BROWN</td> <td>HARD</td> <td>0</td> <td>10</td> </tr> <tr> <td>GRAVEL</td> <td>BROWN</td> <td>HARD</td> <td>10</td> <td>35</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>35</td> <td>48</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>HARD</td> <td>48</td> <td>68</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>68</td> <td>75</td> </tr> </tbody> </table>				Material	Color	Hardness	From	To	CLAY	BROWN	HARD	0	10	GRAVEL	BROWN	HARD	10	35	SAND	BROWN	SOFT	35	48	CLAY	GRAY	HARD	48	68	SAND	BROWN	SOFT	68	75	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Material	Color	Hardness	From	To																															
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				Use Domestic		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																	
				Casing Diameter 4 in. to 71 ft.		Weight 3 lbs./ft.		Hole Diameter 8 in. to 75 ft.																															
				Open Hole from ft. to ft.		Screen YES Make COOK Type stainless steel																																	
Diameter 3		Slot/Gauze 12		Length 4		Set Between 71 ft. and 75 ft.																																	
Static Water Level 40 ft. from Land surface Date Measured 06/08/1993						PUMPING LEVEL (below land surface) ft. after hrs. pumping 10 g.p.m.																																	
Well Head Completion Pitless adapter manufacturer MΛASS Model 4J-1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 10 to 40 ft. 5 bags																																	
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																																	
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NO REMARKS

Located **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System UTM - Nad83, Zone15, Meters **X:** 415287 **Y:** 5091358

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Northland Well Co.</u>	<u>49397</u> <u>HENSE, R.</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		522900	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

524201

County Morrison
 Quad Pierz
 Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/22/1994
 Update Date 06/01/2001
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name PREIMESBERGER,TOM&JACKIE Township Range Dir Section Subsections Elevation 40 30 W 8 DDD Elevation Method 1184 ft. Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 62 ft. Depth Completed 62 ft. Date Well Completed 04/13/1994 Drilling Method Driven</p>																																		
<p>Well Address 626 PARK AV SE PIERZ MN 56364</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>SAND & ROCKS</td> <td>BROWN</td> <td>HARD</td> <td>0</td> <td>28</td> </tr> <tr> <td>ROCKS & CLAY</td> <td>GRAY</td> <td>HARD</td> <td>28</td> <td>58</td> </tr> <tr> <td>SAND , GRAEL & WATER</td> <td>BROWN</td> <td>SOFT</td> <td>58</td> <td>62</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	SAND & ROCKS	BROWN	HARD	0	28	ROCKS & CLAY	GRAY	HARD	28	58	SAND , GRAEL & WATER	BROWN	SOFT	58	62	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 58 ft.</td> <td>11 lbs./ft.</td> <td>4 in. to 62 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>20</td> <td>4</td> <td>53 ft. and 62 ft.</td> </tr> </tbody> </table> <p>Static Water Level 28 ft. from Land surface Date Measured 04/13/1994</p> <p>PUMPING LEVEL (below land surface) 50 ft. after 1 hrs. pumping 15 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 58 ft.	11 lbs./ft.	4 in. to 62 ft.	Diameter	Slot/Gauze	Length	Set Between	4	20	4	53 ft. and 62 ft.
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	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Method GPS SA On (averaged) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 415282 Y: 5091384</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 100 feet _direction Septic tank/drain field_type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ IIP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																	
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<p>First Bedrock Aquifer Last Strat Depth to Bedrock ft.</p>																																			
<p>County Well Index Online Report</p>																																			
<p style="text-align: center;">524201</p>																																			
<p>Printed 6/28/2008 HE-01205-07</p>																																			

SITE SUMMARY

Site Name: Pine River

Fire Department: Pine River Fire Department
PO Box 444
Pine River, MN 56474

Site Contact: Keith Farnam, Fire Chief
218-587-2131
prfd56474@yahoo.com

Training Location: Fair grounds and school grounds on 1st Street, Pine River

Type of foam used in training: AR-AFFF: Ansulite (use in training not specified)
Class A: Ansul Silv-ex

Foam training frequency: Less than Bi-Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: not specified
Class A: 30 gallons

Nearest surface water: Norway Lake outlet, less than 1/4 mile east of the school grounds; 1/4 to 1/2 mile east of the fair grounds.

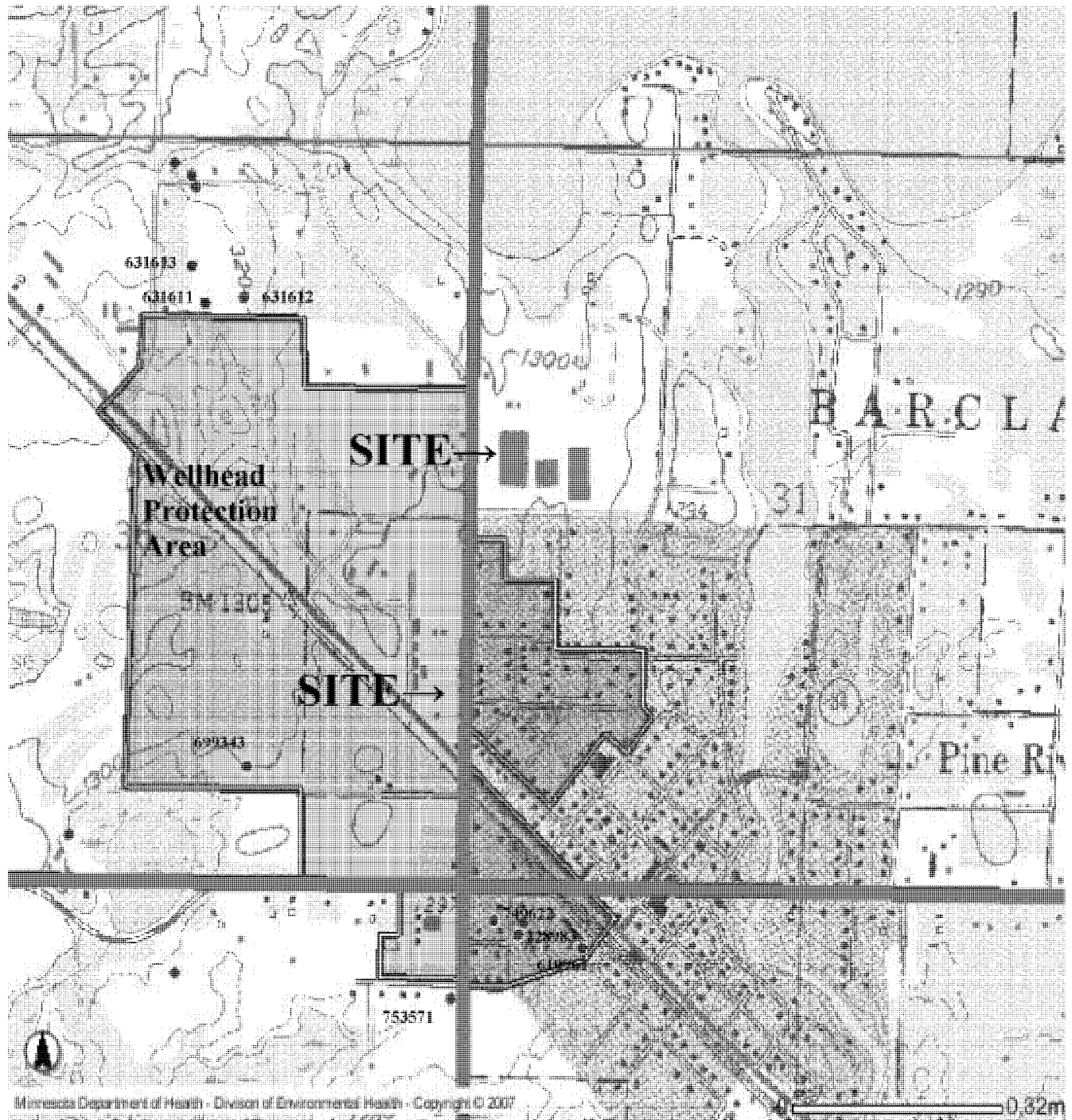
Nearest wetland: Less than 1/4 mile east of the school grounds; 1/4 to 1/2 mile east of the fair grounds.

Nearest water well: 1/4 to 1/2 mile west of both training sites

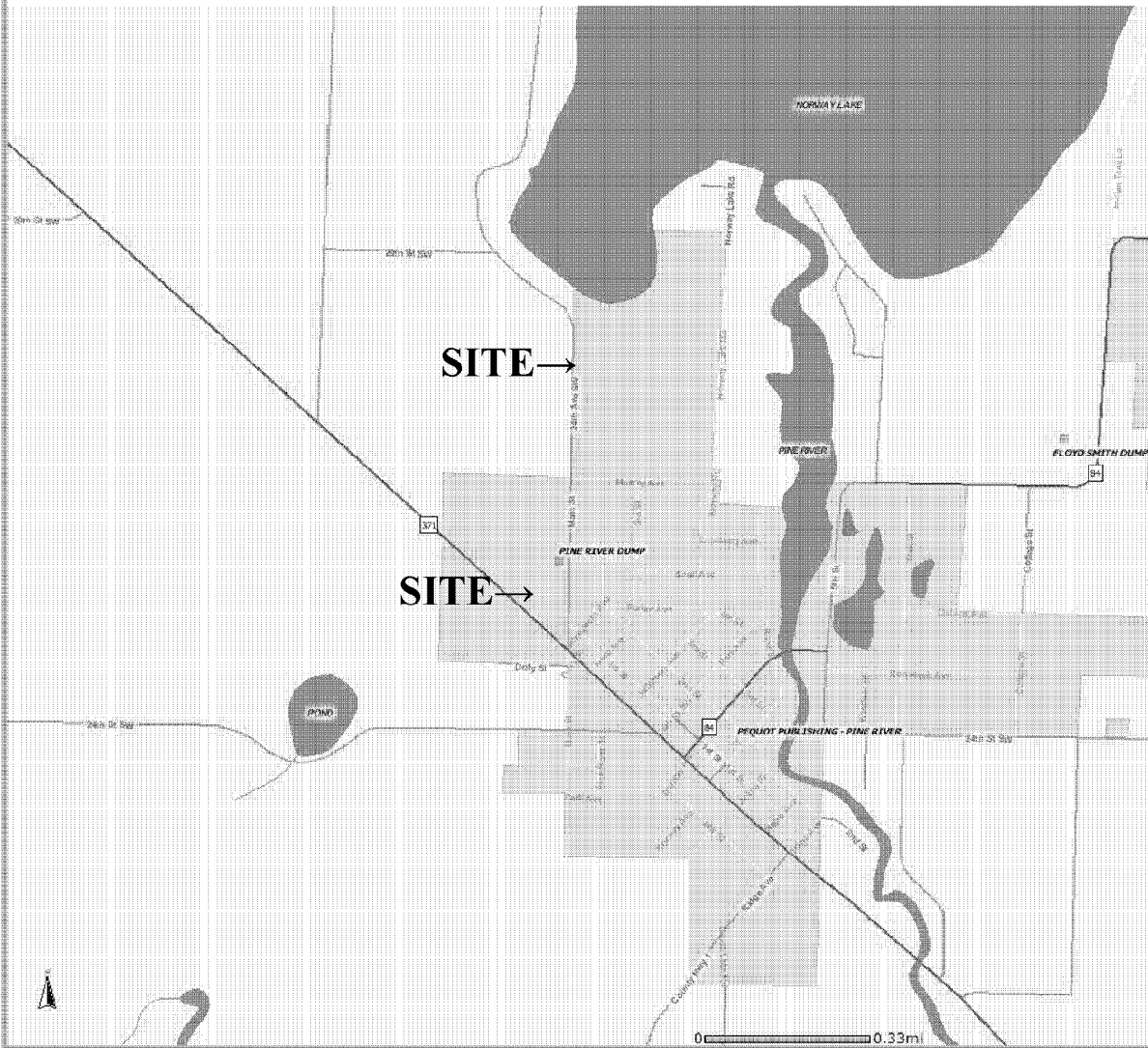
Nearest Wellhead Protection Area: Fairgrounds located in Wellhead Protection Area; school grounds located adjacent to Wellhead Protection Area.

SITE RANKING: 14

PINE RIVER CWI Well Map



Pine River What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

228983

County Cass
 Quad Pine River
 Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 07/22/1992
 Update Date 05/16/2006
 Received Date

Well Name PINE RIVER 1 Township Range Dir Section Subsections Elevation 1297 ft. 137 29 W 6 Elevation Method Calc from DEM (USGS 7.5 min or equiv.)				Well Depth 311 ft.	Depth Completed 32 ft.	Date Well Completed 09/00/1952		
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Well Address PINE RIVER MN				Use Abandoned Status Sealed				
Geological Material				Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.				
FINE SAND SAND COARSE SAND CLAY & SAND DRIFT W/FINE SAND & CLAY CLEAN SAND DRIFT W/FINE SAND & CLAY FINE SAND, FAIRLY CLEAN CLAY FINE MUDDY SAND SAND & CLAY FINE SAND "MARL" ROCK, UPPER PART SOFT	Color BLUE GRAY GRAY BLUE GRAY WHITE GREEN	Hardness MEDIUM	From 0 15 25 37 43 127 130 170 178 268 275 285 307 309	To 15 25 37 43 127 130 170 178 268 285 307 309 311	Casing Diameter 8 in. to 24 ft. Weight lbs/ft. Hole Diameter			
REMARKS WELL SEALED 06-18-1998 BY 34050 ORIGINAL USE MU - MUNICIPAL Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000) Unique Number Verification N/A Date 09/19/2000 System UTM - Nad83, Zone15, Meters X: 392434 Y: 5174751				Open Hole from ft. to ft.				
Screen YES Make JOINSON EVERDUR Type				Diameter Slot/Gauze 30 Length 8 Set Between ft. and ft.				
Static Water Level 17 ft. from L and surface Date Measured 09/00/1950				PUMPING LEVEL (below land surface) 9 ft. after 3 hrs. pumping 165 g.p.m.				
Well Head Completion Pileless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Turbine Material				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification <u>MUELLER</u> <u>A.</u>				License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Weathering Residuum Aquifer Last Strat Weathering Residuum Depth to Bedrock 307 ft.				County Well Index Online Report				
228983				Printed 6/28/2008 HE-01205-07				

Minnesota Unique Well No.

610961

County Cass
 Quad Pine River
 Quad ID 232B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**
 Minnesota Statutes Chapter
 103I

Entry Date 03/16/2000
 Update Date 01/18/2008
 Received Date

<p>Well Name MW-2</p> <p>Township Range Dir Section Subsections Elevation 1295 ft.</p> <p>137 29 W 6 BBA Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 25 ft. Depth Completed 25 ft. Date Well Completed 03/17/1999</p> <p>Drilling Method Hollow Stem Auger</p>
<p>Well Address MILL ST PINE RIVER MN 56474</p> <p>Geological Material SAND W/ TR GRAVEL Color YEL/BRN Hardness SOFT From 0 To 25</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.</p> <p>Use Abandoned Status Sealed</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter 2 in. to 15 ft. Weight lbs./ft. Hole Diameter 7.25 in. to 25 ft.</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make HORIZON Type plastic</p> <p>Diameter 2 Slot/Gauze 10 Length 10 Set Between 15 ft. and 25 ft.</p> <p>Static Water Level 20.6 ft. from Land surface Date Measured 04/26/1999</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p>REMARKS WELL SEALED 12-29-1999 BY 75330 ORIGINAL USE MW - MONITOR WELL</p> <p>Located Minnesota Department of Health Method GPS Differentially Corrected</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 392592 Y: 5174723</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 0 to 4 ft. Grout Material: Bentonite from 4 to 11 ft.</p> <p>Nearest Known Source of Contamination 500 feet North East direction Volatile organic compounds type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p> <p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Valnes Well Co.</u> <u>75330</u> <u>EVINK, K.</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		610961 Printed 6/28/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Minnesota Unique Well No.

631611

County Cass
Quad Pine River
Quad ID 232B

*Minnesota Statutes Chapter
1031*

Well Name SHAMP, ARCHIE		Well Depth 53 ft.	Depth Completed 53 ft.	Date Well Completed 07/23/1999
Township Range Dir Section Subsections Elevation 138 30 W 36		Elevation 1316 ft. Calc from DEM (USGS 7.5 min or equiv.)		
Elevation Method		Drilling Method Non-specified Rotary		
Well Address BOX 12 PINE RIVER MN 56474		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Geological Material		Use Domestic		
Color		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Hardness		Casing Diameter 4 in. to 45 ft. Weight 3 lbs./ft. Hole Diameter 8 in. to 53 ft.		
From		Open Hole from ft. to ft.		
To		Screen YES Make JOHNSON Type stainless steel		
SAND BROWN SOFT 0 15		Diameter 3 Slot/Gauze 12 Length 8 Set Between 45 ft. and 53 ft.		
SANDY CLAY BROWN MEDIUM 15 26		Static Water Level 24 ft. from Land surface Date Measured 07/23/1999		
SANDY CLAY GREEN MEDIUM 26 45		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
SAND GREEN MEDIUM 45 53		Well Head Completion Pitless adapter manufacturer MAAS Model 4J-1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 35 ft. 4 bags		
Located Minnesota Department of Health		Nearest Known Source of Contamination 50 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Method GPS SA Off (averaged)		Pump <input type="checkbox"/> Not Installed Date Installed 07/23/1999 Manufacturer's name STA RITE Model number HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m. Type Submersible Material		
Unique Number Verification N/A Date N/A		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 391662 Y: 5176118		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

First Bedrock	Aquifer	Well Contractor Certification		
Last Strat	Depth to Bedrock ft.	<u>Northland Drilling, Inc.</u>	<u>49697</u>	<u>KERSTING, ROB</u>
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		631611	Printed 6/28/2008 HE-01205-07	

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Minnesota Unique Well No.

631612

County Cass
Quad Pine River
Quad ID 232B

*Minnesota Statutes Chapter
1031*

Well Name SHAMP, ARCHIE		Well Depth 47 ft.	Depth Completed 47 ft.	Date Well Completed 07/23/1999
Township Range Dir Section Subsections Elevation 138 30 W 36		Elevation Method 1320 ft. Calc from DEM (USGS 7.5 min or equiv.)		
		Drilling Method Non-specified Rotary		
Well Address BOX 12 PINE RIVER MN 56474		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 42 ft.	Weight 3 lbs./ft.	Hole Diameter 8 in. to 47 ft.
		Open Hole from ft. to ft.		
		Screen YES	Make WISCO	Type stainless steel
Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	14
SANDY CLAY	BROWN	MEDIUM	14	29
SANDY CLAY	GREEN	MEDIUM	29	41
SAND	GREEN	MEDIUM	41	47
		Diameter	Slot/Gauze	Length
		4	15	5
		Set Between 42 ft. and 47 ft.		
		Static Water Level 30 ft. from Land surface Date Measured 07/23/1999		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer MAAS Model 4J-1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 30 ft. 4 bags		
Located Minnesota Department of Health		Method GPS SA Off (averaged)		
Unique Number Verification N/A		Date N/A		
System UTM - Nad83, Zone15, Meters		X: 391758 Y: 5176131		
		Nearest Known Source of Contamination 52 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed 07/23/1999 Manufacturer's name STA RITE Model number HP 0.5 Volts 230 Length of drop Pipe 35 ft. Capacity 10 g.p.m. Type Submersible Material		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

First Bedrock	Aquifer	Well Contractor Certification		
Last Strat	Depth to Bedrock ft.	<u>Northland Drilling, Inc.</u>	<u>49697</u>	<u>KERSTING, ROB</u>
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		631612	Printed 6/28/2008 HE-01205-07	

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Minnesota Unique Well No.

631613

County Cass
Quad Pine River
Quad ID 232B

*Minnesota Statutes Chapter
1031*

Well Name SHAMP, ARCHIE				Well Depth 52 ft.		Depth Completed 52 ft.		Date Well Completed 07/23/1999																									
Township Range Dir Section Subsections Elevation 138 30 W 36				Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Non-specified Rotary																											
Well Address BOX 12 PINE RIVER MN 56474 Geological Material <table style="width:100%; border:none;"> <tr> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SAND BROWN</td> <td>SOFT</td> <td>0</td> <td>6</td> </tr> <tr> <td>CLAY BROWN</td> <td>MEDIUM</td> <td>6</td> <td>23</td> </tr> <tr> <td>SANDY CLAY BROWN</td> <td>MEDIUM</td> <td>23</td> <td>31</td> </tr> <tr> <td>SANDY CLAY GREEN</td> <td>MEDIUM</td> <td>31</td> <td>44</td> </tr> <tr> <td>SAND GREEN</td> <td>MEDIUM</td> <td>44</td> <td>52</td> </tr> </table>				Color	Hardness	From	To	SAND BROWN	SOFT	0	6	CLAY BROWN	MEDIUM	6	23	SANDY CLAY BROWN	MEDIUM	23	31	SANDY CLAY GREEN	MEDIUM	31	44	SAND GREEN	MEDIUM	44	52	Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Color	Hardness	From	To																										
				SAND BROWN	SOFT	0	6																										
				CLAY BROWN	MEDIUM	6	23																										
				SANDY CLAY BROWN	MEDIUM	23	31																										
				SANDY CLAY GREEN	MEDIUM	31	44																										
				SAND GREEN	MEDIUM	44	52																										
				Use Domestic																													
				Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																													
				Casing Diameter 4 in. to 44 ft.		Weight 3 lbs./ft.		Hole Diameter 8 in. to 52 ft.																									
Open Hole from ft. to ft.																																	
Screen YES		Make JOHNSON		Type stainless steel																													
Diameter 3		Slot/Gauze 12		Length 8		Set Between 44 ft. and 52 ft.																											
Static Water Level 26 ft. from Land surface Date Measured 07/23/1999																																	
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																	
Well Head Completion Pitless adapter manufacturer MAAS Model 4J-1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																	
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 35 ft. 5 bags																																	
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																	
Pump <input type="checkbox"/> Not Installed Date Installed 07/23/1999 Manufacturer's name STA RITE Model number __ HP 0.5 Volts 230 Length of drop Pipe 35 ft. Capacity 10 g.p.m. Type Submersible Material																																	
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																	
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																	

NO REMARKS

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System UTM - Nad83, Zone15, Meters **X:** 391629 **Y:** 5176199

First Bedrock	Aquifer	Well Contractor Certification		
Last Strat	Depth to Bedrock ft.	<u>Northland Drilling, Inc.</u>	<u>49697</u>	<u>KERSTING, ROB</u>
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		631613	Printed 6/28/2008 HE-01205-07	

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date
Update Date 05/25/2006
Received Date 09/24/2003

Minnesota Unique Well No.

699343

County Cass
Quad Pine River
Quad ID 232B

*Minnesota Statutes Chapter
103I*

Well Name HUNT UTILITIES GROUP					Well Depth	Depth Completed	Date Well Completed																								
Township Range Dir Section Subsections Elevation					57 ft.	57 ft.	09/12/2003																								
138	30	W	36	DCAC	Drilling Method Non-specified Rotary																										
Elevation Method					1296 ft. Calc from DEM (USGS 7.5 min or equiv.)																										
Well Address RR PINE RIVER MN 56474 Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>2</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>2</td> <td>15</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>15</td> <td>37</td> </tr> <tr> <td>GRAY</td> <td>HARD</td> <td>37</td> <td>50</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>50</td> <td>57</td> </tr> </tbody> </table>					Color	Hardness	From	To	BROWN	SOFT	0	2	BROWN	SOFT	2	15	GRAY	SOFT	15	37	GRAY	HARD	37	50	GRAY	SOFT	50	57	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
					Color	Hardness	From	To																							
					BROWN	SOFT	0	2																							
					BROWN	SOFT	2	15																							
					GRAY	SOFT	15	37																							
					GRAY	HARD	37	50																							
					GRAY	SOFT	50	57																							
					Use Domestic			From Ft. to Ft.																							
					Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																										
					Casing Diameter		Weight	Hole Diameter																							
4 in. to 53 ft.		1 lbs./ft.	8.25 in. to 30 ft. 6.25 in. to 57 ft.																												
Open Hole from ft. to ft.																															
Screen YES Make JOHNSON Type stainless steel																															
Diameter		Slot/Gauze	Length	Set Between																											
4		15	4	53 ft. and 57 ft.																											
Static Water Level 19 ft. from Land surface Date Measured 09/11/2003																															
PUMPING LEVEL (below land surface) 52 ft. after 1 hrs. pumping 20 g.p.m.																															
Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																															
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 30 ft. 3 bags																															
Nearest Known Source of Contamination 110 feet North West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
Pump <input type="checkbox"/> Not Installed Date Installed 09/12/2003 Manufacturer's name STA-RITE Model number 10P4C02J HP 0.5 Volts 230 Length of drop Pipe 40 ft. Capacity 10 g.p.m. Type Submersible Material																															
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															

NO REMARKS

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/09/2004
System UTM - Nad83, Zone15, Meters **X:** 391764 **Y:** 5175116

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Elsner Well Drilling, Inc.</u>	<u>29383</u> <u>SMITH, B.</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		699343	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

749622

County Cass
 Quad Pine River
 Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/21/2007
 Update Date 12/17/2007
 Received Date 05/03/2007

<p>Well Name CITY OF PINE RIVER Township Range Dir Section Subsections Elevation 1293 ft. 137 29 W 6 BBBBDB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 308 ft. Depth Completed 308 ft. Date Well Completed 04/10/2007</p> <p>Drilling Method Non-specified Rotary</p>																																																																															
<p>Well Address 160 PINE ST N PINE RIVER MN 56474</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOPSOIL</td><td>BROWN</td><td>SOFT</td><td>0</td><td>1</td></tr> <tr><td>SAND</td><td>BROWN</td><td>SOFT</td><td>1</td><td>34</td></tr> <tr><td>SANDY CLAY</td><td>GRY/RED</td><td>HARD</td><td>34</td><td>96</td></tr> <tr><td>SAND</td><td>GRY/RED</td><td>SOFT</td><td>96</td><td>104</td></tr> <tr><td>SANDY CLAY</td><td>GRY/RED</td><td>HARD</td><td>104</td><td>134</td></tr> <tr><td>SAND</td><td>GRY/RED</td><td>SOFT</td><td>134</td><td>146</td></tr> <tr><td>SANDY CLAY</td><td>GRY/RED</td><td>HARD</td><td>146</td><td>153</td></tr> <tr><td>SAND</td><td>GRY/RED</td><td>SOFT</td><td>153</td><td>163</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>HARD</td><td>163</td><td>211</td></tr> <tr><td>SAND</td><td>GRAY</td><td>SOFT</td><td>211</td><td>225</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>HARD</td><td>225</td><td>249</td></tr> <tr><td>SAND</td><td>GRAY</td><td>SOFT</td><td>249</td><td>308</td></tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	TOPSOIL	BROWN	SOFT	0	1	SAND	BROWN	SOFT	1	34	SANDY CLAY	GRY/RED	HARD	34	96	SAND	GRY/RED	SOFT	96	104	SANDY CLAY	GRY/RED	HARD	104	134	SAND	GRY/RED	SOFT	134	146	SANDY CLAY	GRY/RED	HARD	146	153	SAND	GRY/RED	SOFT	153	163	CLAY	GRAY	HARD	163	211	SAND	GRAY	SOFT	211	225	CLAY	GRAY	HARD	225	249	SAND	GRAY	SOFT	249	308	<p>Drilling Fluid Bentonite</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.</p> <p>Use Test well</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 296 ft.</td> <td>10.79 lbs/ft.</td> <td>8.25 in. to 50 ft. 6.25 in. to 308 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>15</td> <td>12</td> <td>296 ft. and 308 ft.</td> </tr> </tbody> </table> <p>Static Water Level 10 ft. from Land surface Date Measured 04/10/2007</p> <p>PUMPING LEVEL (below land surface) 295 ft. after hrs. pumping 200 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 296 ft.	10.79 lbs/ft.	8.25 in. to 50 ft. 6.25 in. to 308 ft.	Diameter	Slot/Gauze	Length	Set Between	4	15	12	296 ft. and 308 ft.
	Geological Material	Color	Hardness	From	To																																																																											
	TOPSOIL	BROWN	SOFT	0	1																																																																											
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	SANDY CLAY	GRY/RED	HARD	34	96																																																																											
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	SANDY CLAY	GRY/RED	HARD	146	153																																																																											
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CLAY	GRAY	HARD	163	211																																																																												
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4	15	12	296 ft. and 308 ft.																																																																													
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 06/21/2007 System UTM - Nad83, Zone15, Meters X: 392374 Y: 5174783</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 50 ft. 6 bags</p> <p>Nearest Known Source of Contamination 0 feet direction type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed 04/11/2007 Manufacturer's name FRANKLIN 5 HP Model number TESTPUMP ___ HP ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Submersible Material</p>																																																																															
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>																																																																															
	<p>Well Contractor Certification Elsner Well Drilling, Inc. 1374 ELSNER, J. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																															
	<p>First Bedrock Aquifer Last Strat Depth to Bedrock ft.</p>																																																																															
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">749622</p> <p style="text-align: right;">Printed 6/28/2008 IIE-01205-07</p>																																																																															

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 06/21/2007
Update Date 03/05/2008
Received Date 07/16/2007

Minnesota Unique Well No.

753571

County Cass
Quad Pine River
Quad ID 232B

*Minnesota Statutes Chapter
1031*

Well Name CITY OF PINE RIVER		Well Depth 38 ft.	Depth Completed 38 ft.	Date Well Completed 06/05/2007	
Township Range Dir Section Subsections Elevation 137 30 W 1 AADAAC		1293 ft. Calc from DEM (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Non-specified Rotary			
Well Address RR PINE RIVER MN 56474		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
Geological Material SAND		Use Test well			
Color BROWN	Hardness SOFT	Casing Type Plastic	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.	
From 0	To 38	Casing Diameter 6 in. to 28 ft.	Weight 1 lbs./ft.	Hole Diameter 9.25 in. to 38 ft.	
Static Water Level 15 ft. from Land surface Date Measured 06/05/2007		Open Hole from ft. to ft.			
PUMPING LEVEL (below land surface) 27 ft. after 24 hrs. pumping 150 g.p.m.		Screen YES	Make BRADY	Type plastic	
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Diameter 6	Slot/Gauze 20	Length 10	Set Between 28 ft. and 38 ft.
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 28 ft. 5 bags		NO REMARKS			
Nearest Known Source of Contamination 0 feet direction type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Located Minnesota Department of Health Method GPS SA Off (averaged)			
Pump <input type="checkbox"/> Not Installed Date Installed 0 Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		Unique Number Verification N/A Date 06/21/2007			
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		System UTM - Nad83, Zone15, Meters X: 392269 Y: 5174614			
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

First Bedrock	Aquifer	Well Contractor Certification	
Last Strat	Depth to Bedrock ft.	<u>Elsner Well Drilling, Inc.</u>	<u>1374</u> <u>ELSNER, J.</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		753571	Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name: Porter

Fire Department: Porter Fire Department
505 Maple
Porter, MN 56280

Site Contact: Patrick Vlaminc, Fire Chief
507-296-4475

Training Location: Fire hall, 301 Lone Tree Street, Porter

Type of foam used in training: AR-AFFF: Chemguard
Class A: Ansul Silv-ex

Foam training frequency: Semi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: AR-AFFF: 5 gallons
Class A: 5 gallons

Nearest surface water: North Branch of the Yellow Medicine River, less than 1/4 mile east

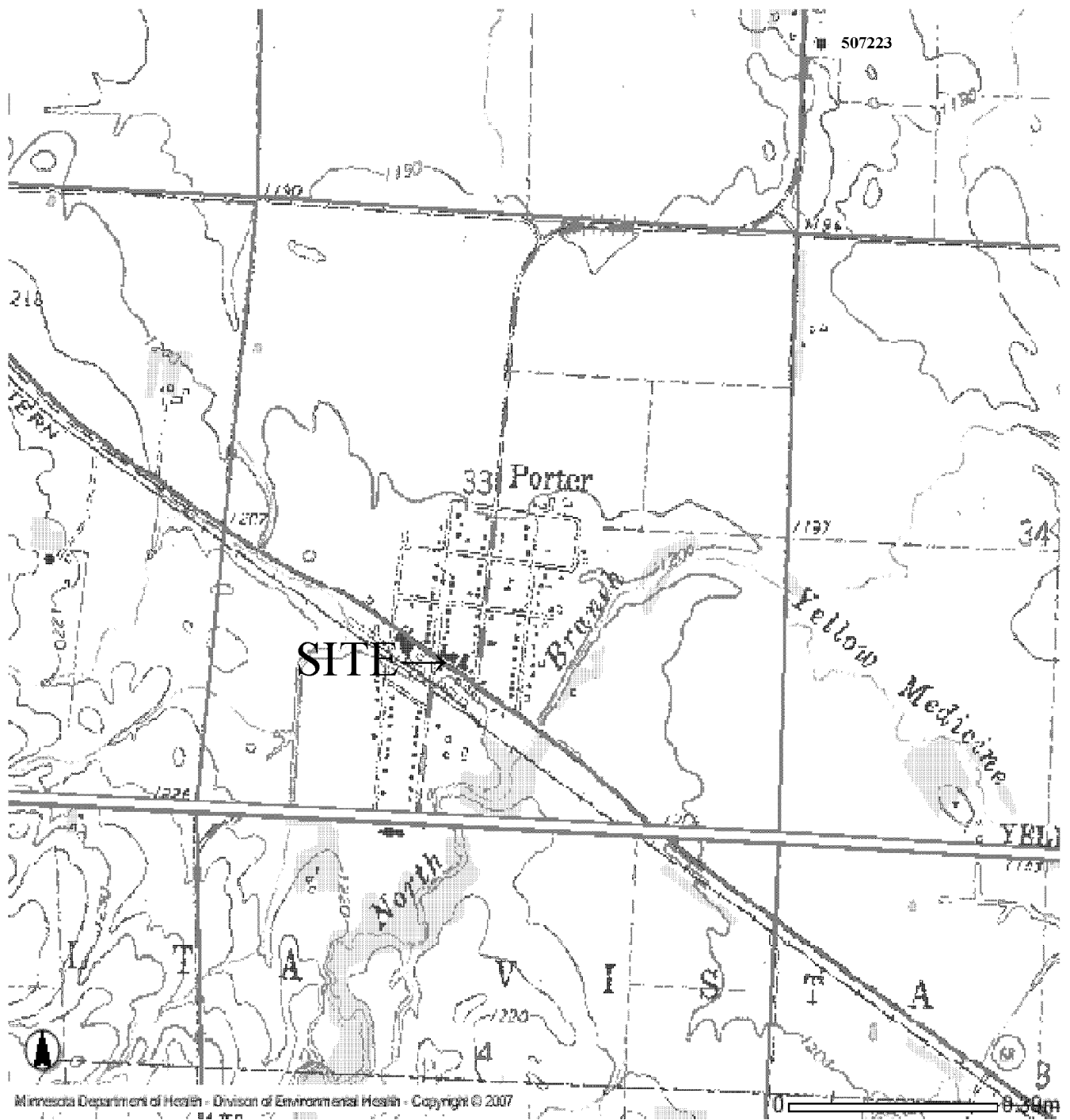
Nearest wetland: Approximately 1/4 mile south

Nearest water well: Approximately 1 mile northeast

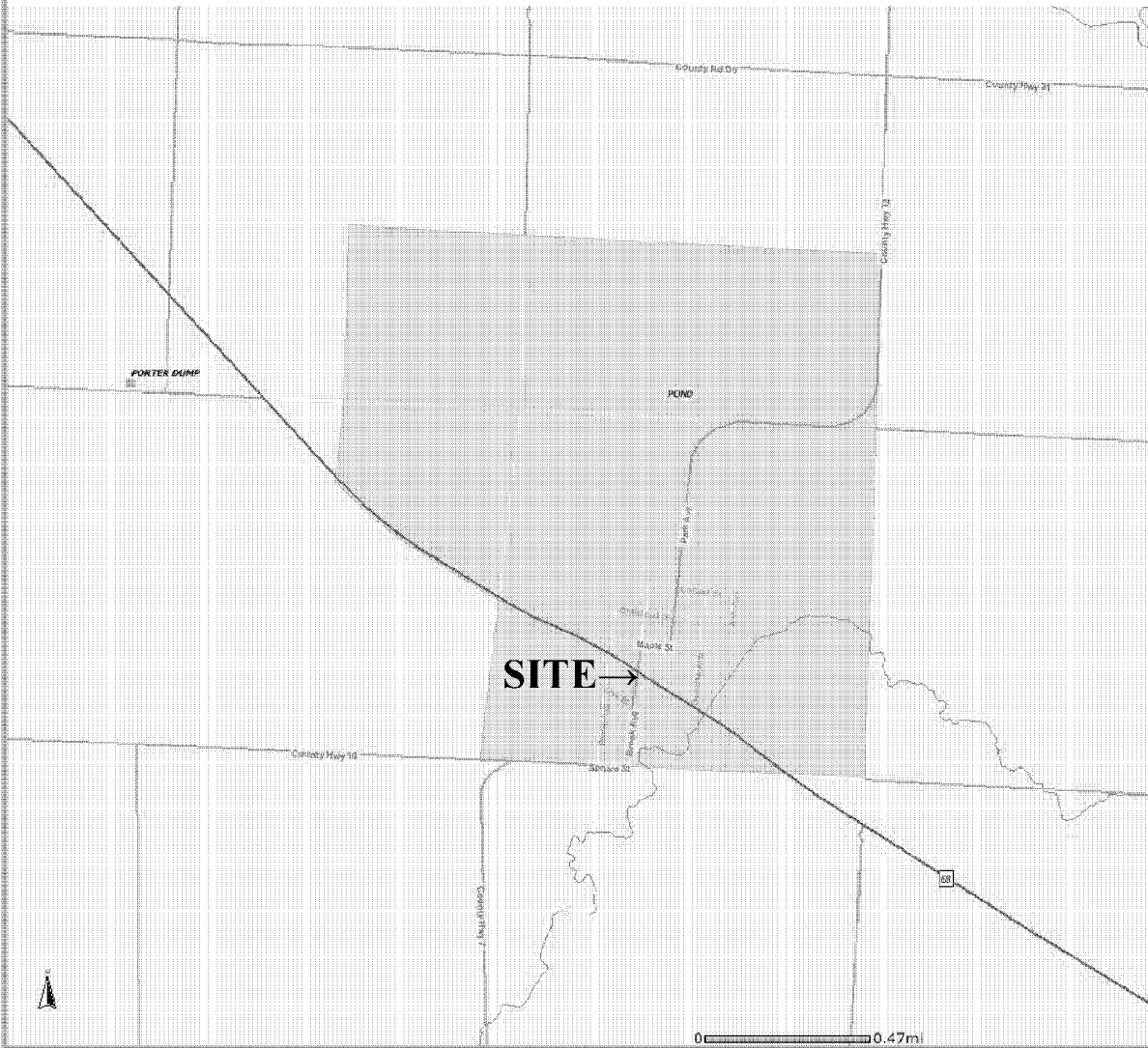
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

PORTER CWI Well Map



Porter What's In My Neighborhood Map

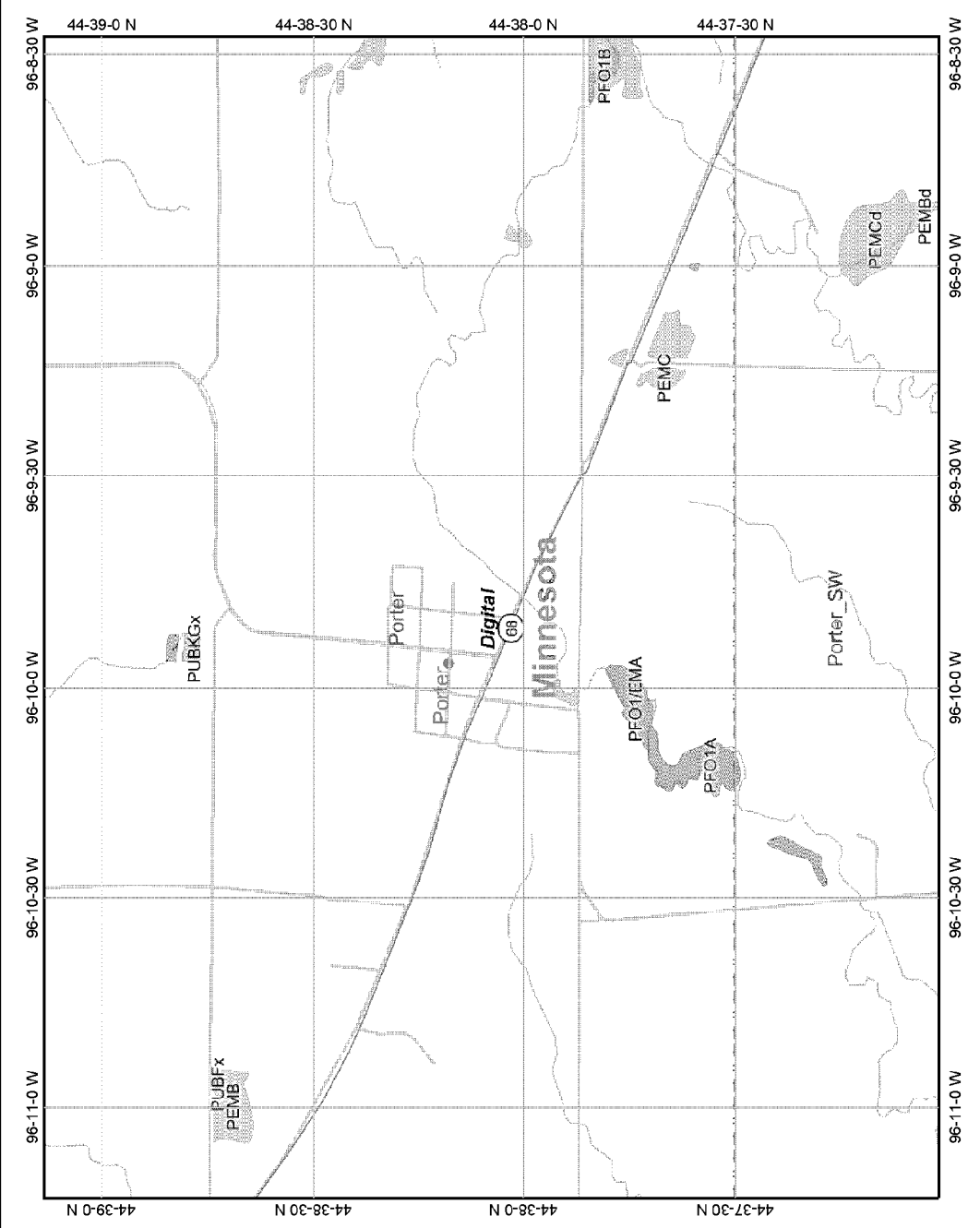


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

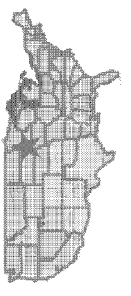
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Porter Wetland Map



Map center: 44° 38' 5" N, 96° 9' 50" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:27,524

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

507223

County Yellow Medicine
 Quad Porter
 Quad ID 100B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 12/07/1990
 Update Date 01/21/1997
 Received Date

Minnesota Statutes Chapter 103I

Well Name MILLER, ROBERT		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		115 ft.	115 ft.	03/21/1990
114	44 W 27 CBCBDC	Elevation Method topographic map (+/- 5 feet)		
Drilling Method Non-specified Rotary				
Drilling Fluid Bentonite		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		From Ft. to Ft.		
Use Domestic				
Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No				
No Above/Below 1 ft.				
Casing Diameter		Weight	Hole Diameter	
5 in. to 105 ft.		lbs./ft.	9 in. to 20 ft.	
			8 in. to 115 ft.	
Open Hole from ft. to ft.				
Screen YES Make EVERFLOW Type plastic				
Diameter		Slot/Gauze	Length	Set Between
5		15	10	105 ft. and 115 ft.
Static Water Level		30 ft. from Land surface Date Measured 03/21/1990		
PUMPING LEVEL (below land surface)		60 ft. after hrs. pumping 20 g.p.m.		
Well Head Completion		Pitless adapter manufacturer MAASS Model 5J1-76		
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Grout Material: Neat Cement		from 10 to 40 ft.	0	
Grout Material: Cuttings		from 40 to 100 ft.	0	
Nearest Known Source of Contamination		25 feet North East direction Other type		
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input checked="" type="checkbox"/> Not Installed Date Installed 03/21/1990		Manufacturer's name GOULD Model number 10EJ05412		
		HP 0.5 Volts 220		
		Length of drop Pipe 60 ft. Capacity 10 g.p.m		
		Type Submersible Material Plastic		
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification		Jacobs & Grant Well 12073 GRANT, A.		
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Cretaceous,Undiff. Aquifer Cretaceous,Undiff.				
Last Strat Cretaceous,Undiff. Depth to Bedrock 37 ft.				
County Well Index Online Report		507223		Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name: Preston

Fire Department: Preston Fire Department
PO Box 216
Preston, MN 55965

Site Contact: Jerry Olson, Fire Chief
507-765-3801 (fire hall)
507-765-3327 (home)
jolson002@centurytel.net

Training Location: Fillmore County Fairgrounds, Fillmore Street & County Highway
12, Preston

Type of foam used in training: AR-AFFF: 3M
Training Foam: Clarey's First Strike

Foam training frequency: Two times in last 15 years

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: 5 gallons
Class A: 5 gallons
Training Foam: 5 gallons

Nearest surface water: South Branch of the Root River located adjacent north of the
fairgrounds

Nearest wetland: Adjacent east of fairgrounds

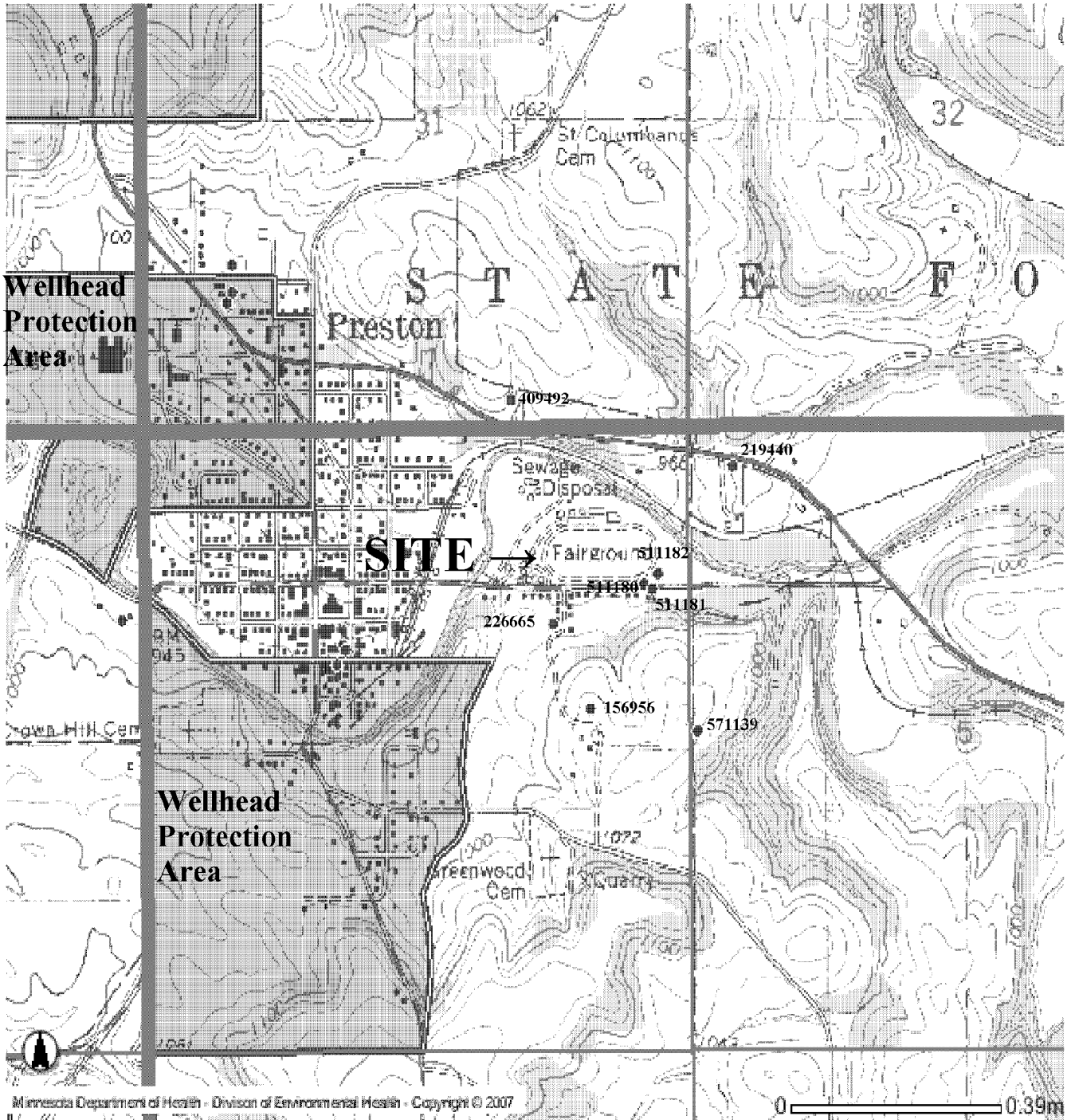
Karst Area: Training site is located in an active karst area

Nearest water well: At fairgrounds

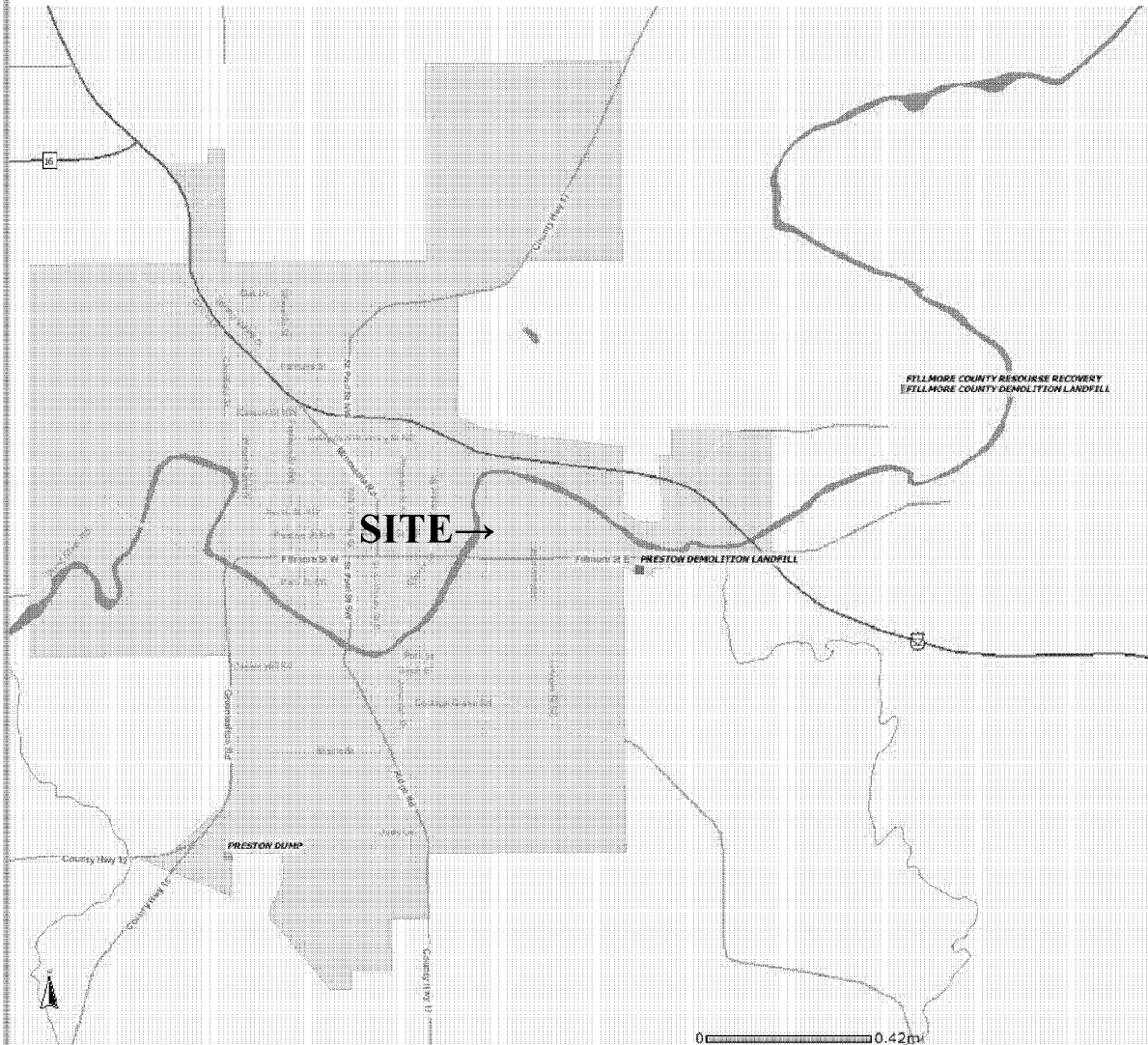
Nearest Wellhead Protection Area: Less than 1/4 mile southwest

SITE RANKING: 28

PRESTON CWI Well Map



Preston What's In My Neighborhood Map

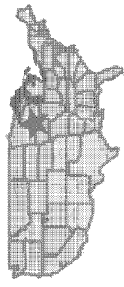
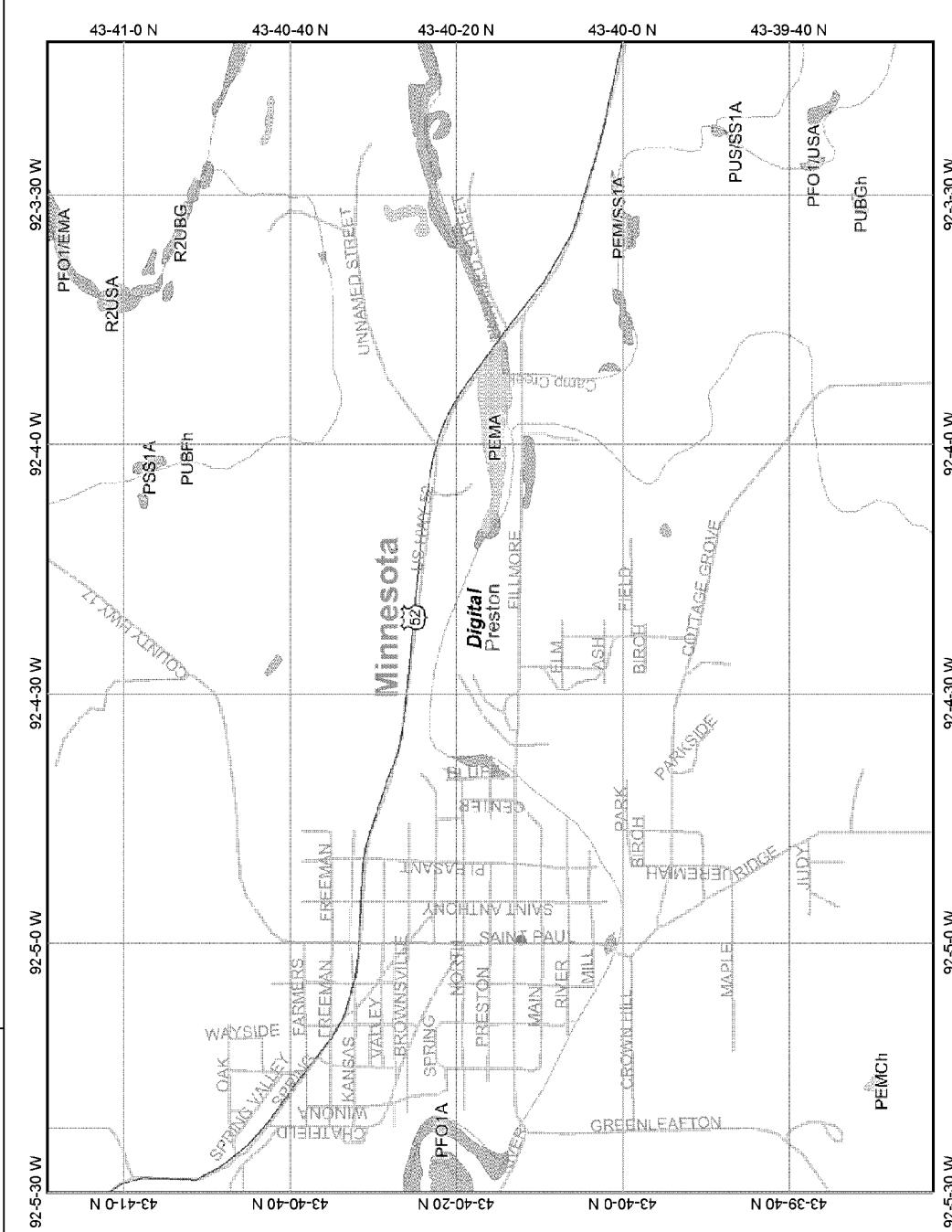


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 **Minnesota Pollution Control Agency**

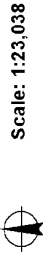
- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Preston Wetland Map



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
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- Lower 48 Available Wetland Data
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- NHD Streams
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- South America
- North America



Scale: 1:23,038

Map center: 43° 40' 16" N, 92° 4' 21" W

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Minnesota Unique Well No.

156956

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/17/1991
 Update Date 05/19/1993
 Received Date

<p>Well Name SACKETT, CLIFFORD Township Range Dir Section Subsections Elevation 1050 ft. 102 10 W 6 ADCCAA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 410 ft. Depth Completed 410 ft. Date Well Completed 06/15/1979</p> <p>Drilling Method Non-specified Rotary</p>																																								
<p>Well Address PRESTON MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>DRIFT</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>11</td> </tr> <tr> <td>DOLOMITE</td> <td>TAN</td> <td>HARD</td> <td>11</td> <td>326</td> </tr> <tr> <td>SANDSTONE</td> <td>RED</td> <td>SOFT</td> <td>326</td> <td>410</td> </tr> </tbody> </table>		Color	Hardness	From	To	DRIFT	BROWN	SOFT	0	11	DOLOMITE	TAN	HARD	11	326	SANDSTONE	RED	SOFT	326	410	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded <input type="checkbox"/> Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Casing Diameter</th> <th style="width:20%;">Weight</th> <th style="width:50%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 345 ft.</td> <td>lbs./ft.</td> <td>0 in. to 410 ft.</td> </tr> </tbody> </table> <p>Open Hole from 345 ft. to 410 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Screen NO</th> <th style="width:15%;">Make</th> <th style="width:70%;">Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Diameter</th> <th style="width:15%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:50%;">Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Static Water Level 103 ft. from Land surface Date Measured 06/15/1979</p> <p>PUMPING LEVEL (below land surface) 110 ft. after hrs. pumping 20 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 345 ft.	lbs./ft.	0 in. to 410 ft.	Screen NO	Make	Type				Diameter	Slot/Gauze	Length	Set Between				
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from neighbor</p> <p>System UTM - Nad83, Zone15, Meters X: 574717 Y: 4835347</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 0 to ft. 7 yds.</p> <p>Nearest Known Source of Contamination 75 feet direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																								
<p>First Bedrock Prairie Du Chien Group Aquifer Jordan</p> <p>Last Strat Jordan Depth to Bedrock 11 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Rowland Well Co. 23124 ROWLAND, N. License Business Name Lic. Or Reg. No. Name of Driller</p>																																								
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">156956</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/28/2008 HE-01205-07</p>																																								

Minnesota Unique Well No.

226665

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/17/1991
 Update Date 05/19/1993
 Received Date

<p>Well Name LAUNGUNN, A.H. Township Range Dir Section Subsections Elevation 955 ft. 102 10 W 6 ADBCBB Elevation Method 7.5 minute topographic map (-/+ 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 41 ft.</td> <td style="width:33%;">Depth Completed 41 ft.</td> <td style="width:33%;">Date Well Completed 10/23/1963</td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> </table>	Well Depth 41 ft.	Depth Completed 41 ft.	Date Well Completed 10/23/1963	Drilling Method --																																														
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Minnesota Unique Well No.

409492

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 01/10/1992
 Update Date 07/21/1994
 Received Date

<p>Well Name GOSI, JOE</p> <p>Township Range Dir Section Subsections Elevation 1030 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>103 10 W 31 DCDCAA Elevation Method</p> <p>Well Address 52 HY S PRESTON MN 55965</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td></td> <td></td> <td>0</td> <td>20</td> </tr> <tr> <td>LIMESTONE</td> <td>BROWN</td> <td>MEDIUM</td> <td>20</td> <td>55</td> </tr> <tr> <td>SANDSTONE</td> <td>BROWN</td> <td>MEDIUM</td> <td>55</td> <td>80</td> </tr> <tr> <td>LIMESTONE</td> <td>BROWN</td> <td>MEDIUM</td> <td>80</td> <td>280</td> </tr> <tr> <td>SANDSTONE</td> <td>GRAY</td> <td>MEDIUM</td> <td>280</td> <td>360</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	CLAY			0	20	LIMESTONE	BROWN	MEDIUM	20	55	SANDSTONE	BROWN	MEDIUM	55	80	LIMESTONE	BROWN	MEDIUM	80	280	SANDSTONE	GRAY	MEDIUM	280	360	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth 360 ft.</td> <td>Depth Completed 360 ft.</td> <td>Date Well Completed 08/27/1985</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Domestic</td> </tr> <tr> <td colspan="3">Casing Type Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td>Casing Diameter 8 in. to 25 ft. 4 in. to 327 ft.</td> <td>Weight lbs./ft. lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from 327 ft. to 360 ft.</td> </tr> <tr> <td>Screen NO</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> <tr> <td colspan="3">Static Water Level 80 ft. from Land surface Date Measured 09/04/1985</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 327 ft. 5 yds.</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/11/1985 Manufacturer's name WEBTROL Model number 352S2012B _ HP 2 Volts 230 Length of drop Pipe 168 ft. Capacity 35 g.p.m Type Submersible Material Galvanized</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification Thein Well Co. 55079 VAN HOUTEN, D License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Well Depth 360 ft.	Depth Completed 360 ft.	Date Well Completed 08/27/1985	Drilling Method Non-specified Rotary			Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Domestic			Casing Type Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			Casing Diameter 8 in. to 25 ft. 4 in. to 327 ft.	Weight lbs./ft. lbs./ft.	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Minnesota Unique Well No.

511181

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/08/1992
 Update Date 05/06/2005
 Received Date

<p>Well Name CITY OF PRESTON Township Range Dir Section Subsections Elevation 930 ft. 102 10 W 6 ADAABB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 17 ft. Depth Completed 17 ft. Date Well Completed 11/02/1990</p> <p>Drilling Method Power Auger</p>																																		
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<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">511181</p> <p style="text-align: right;">Printed 6/28/2008 HE-01205-07</p>																																		

Minnesota Unique Well No.

511182

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/08/1992
 Update Date 05/06/2005
 Received Date

Well Name CITY OF PRESTON Township Range Dir Section Subsections Elevation 930 ft. 102 10 W 6 AADDCB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 17 ft.	Depth Completed 17 ft.	Date Well Completed 11/02/1990
		Drilling Method Power Auger		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use <input type="checkbox"/> Abandoned Status <input type="checkbox"/> Sealed		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2.3 ft.		
		Casing Diameter 2 in. to 7 ft.	Weight lbs./ft.	Hole Diameter 10 in. to 17 ft.
Well Address 609 FILLMORE ST PRESTON MN		Open Hole from ft. to ft.		
		Screen YES	Make HOWARD SMITH	Type stainless steel
Geological Material SILT SILTY SAND POORLY GRADED SAND		Color DK. BRN BROWN BROWN	Hardness SOFT SOFT SOFT	From To 0 5 5 13 13 17
		Diameter Slot/Gauze Length Set Between 2 1 10 7 ft. and 17 ft.		
		Static Water Level 13 ft. from Land surface Date Measured 11/02/1990		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS WELL SEALED 07-09-1993 BY M0104 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 2 ft 0 Grout Material: Bentonite from 2 to 5 ft 0		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 75 feet South West direction Tanks type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number__ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
System UTM - Nad83, Zone15, Meters X: 574916 Y: 4835694		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Braun Intertec Env. M0109 THRONSON. License Business Name Lic. Or Reg. No. Name of Driller G.		
First Bedrock Last Strat Sand-brown		Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.		
County Well Index Online Report		511182		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

571139

County Fillmore
 Quad Preston
 Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/02/2000
 Update Date 03/11/2005
 Received Date

Well Name WOODWARD, MARK A. Township Range Dir Section Subsections Elevation 1058 ft. 102 10 W 5 CBBCCD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 453 ft. Depth Completed 453 ft. Date Well Completed 05/01/1997 Drilling Method Non-specified Rotary
Well Address 206 LINCOLN ST PRESTON MN 55965		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material		Use Domestic Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
CLAY GRAVEL W/SAND COARSE GRAVEL DOLOMITE SANDSTONE DOLOMITE V. SOFT SANDSTONE W/GRAVEL SANDSTONE SHALY DOLOMITE	Color BROWN BROWN VARIED TAN YELLOW GRAY BROWN GRAY GRAY	Hardness SOFT SOFT SOFT MEDIUM SOFT MEDIUM V.SOFT SOFT MEDIUM
From 0 13 24 51 132 149 354 395 450	To 13 24 51 132 149 354 395 450 453	Weight lbs./ft. Hole Diameter 8 in. to 51.5 ft. 4 in. to 414.6 ft.
Open Hole from 415 ft. to 453 ft.		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Static Water Level 119 ft. from Land surface Date Measured 05/01/1997		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
Well Head Completion Pitless adapter manufacturer WHITEWATER Model PAT 260 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 415 ft. 10.75 yds. Grout Material: Pearock from to ft. 5 yds.
NO REMARKS		Nearest Known Source of Contamination 100 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Located Winona State University Method GPS Differentially Corrected Unique Number Verification Tag on well Date N/A System UTM - Nad83, Zone15, Meters X: 575033 Y: 4835289		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name GRUNFOS Model number 10S07-12 HP 0.75 Volts 230 Length of drop Pipe 147 ft. Capacity 10 g.p.m. Type Submersible Material
First Bedrock Prairie Du Chien Group Aquifer Jordan-St.Lawrence Last Strat St.Lawrence Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
County Well Index Online Report		Well Contractor Certification Rowland Well Co. 23124 ROWLAND. License Business Name Lic. Or Reg. No. Name of Driller
		571139 Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name: Rochester

Fire Department: Rochester Fire Department
201 4th Street SE, Room 10
Rochester, MN 55904

Site Contact: Dan Slavin, Deputy Fire Chief
507-328-2813
dslavin@rochestermn.gov

Training Location: 2021 41st Street NW, Rochester

Type of foam used in training: AFFF: 3M
Class A: 3M
Other: HCT F-500 emulsifier

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 5 gallons
Class A: 5 gallons
Other: 25 gallons

Nearest surface water: Intermittent stream 1/4 to 1/3 mile west

Nearest wetland: 1/2 to 1 mile west

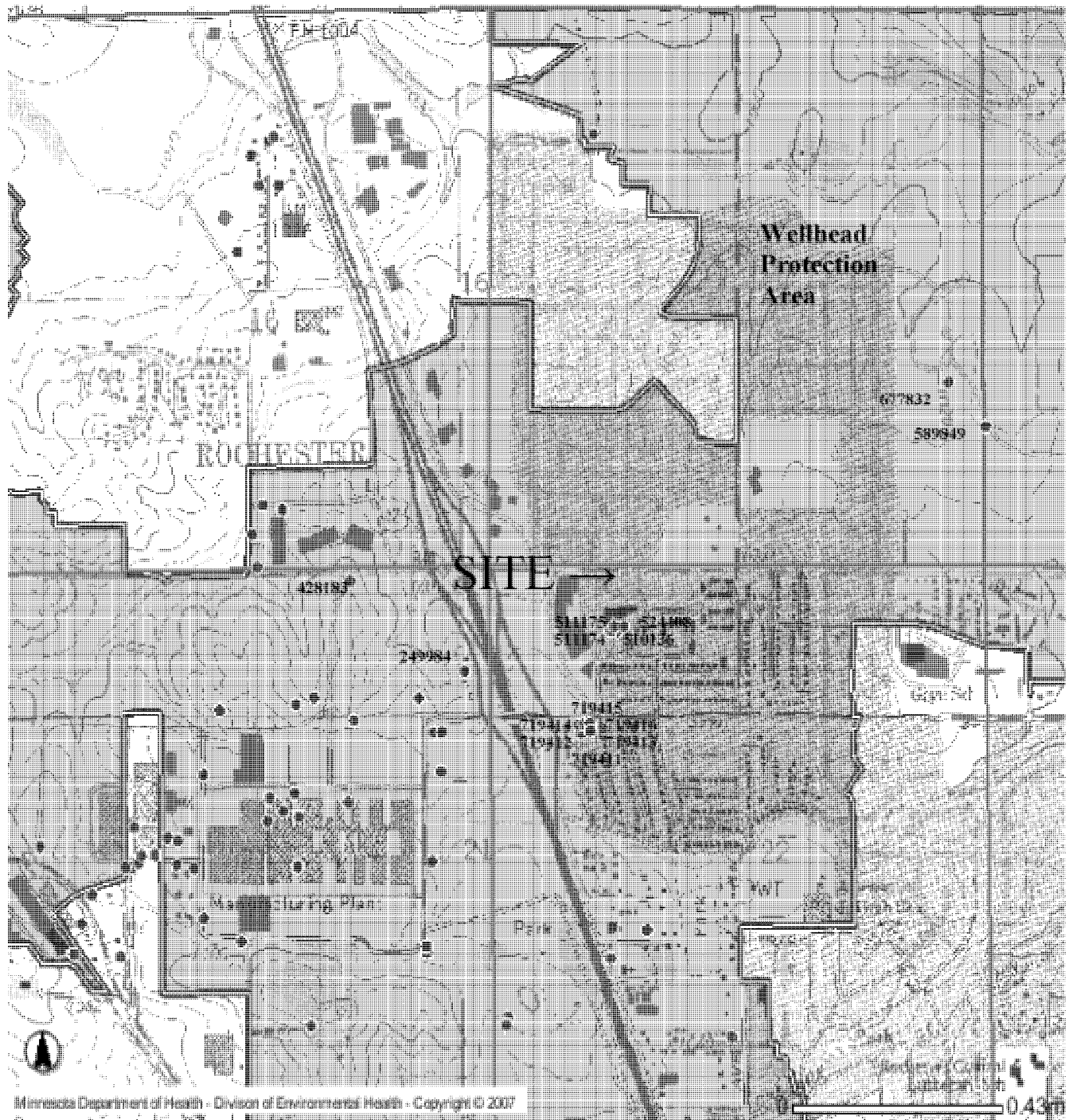
Karst Area: Training site is located in an active karst area

Nearest water well: Less than 1/4 mile south

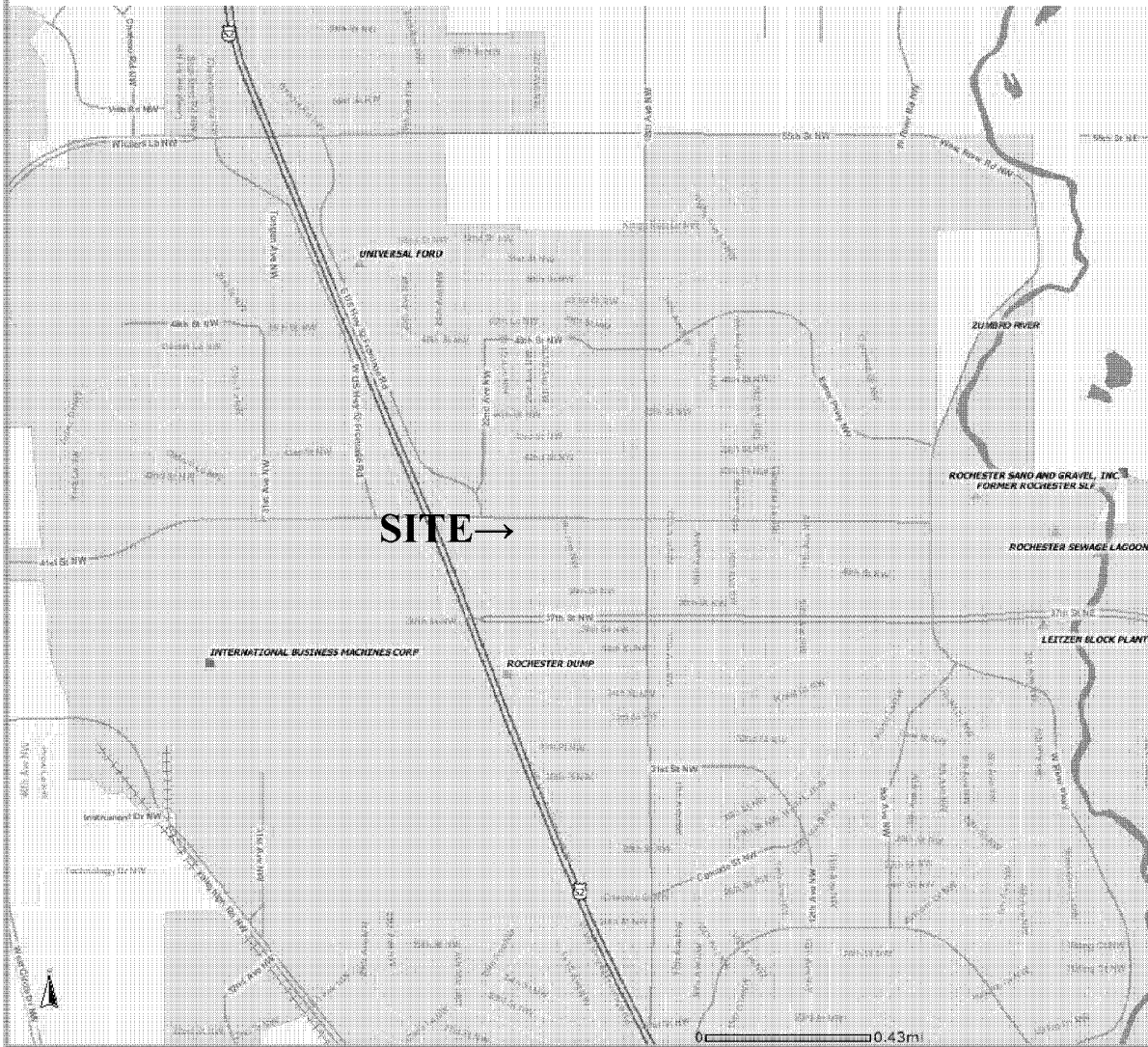
Nearest Wellhead Protection Area: Training site located in Wellhead Protection Area

SITE RANKING: 25

ROCHESTER - 41st Street NW CWI Well Map



Rochester What's In My Neighborhood Map

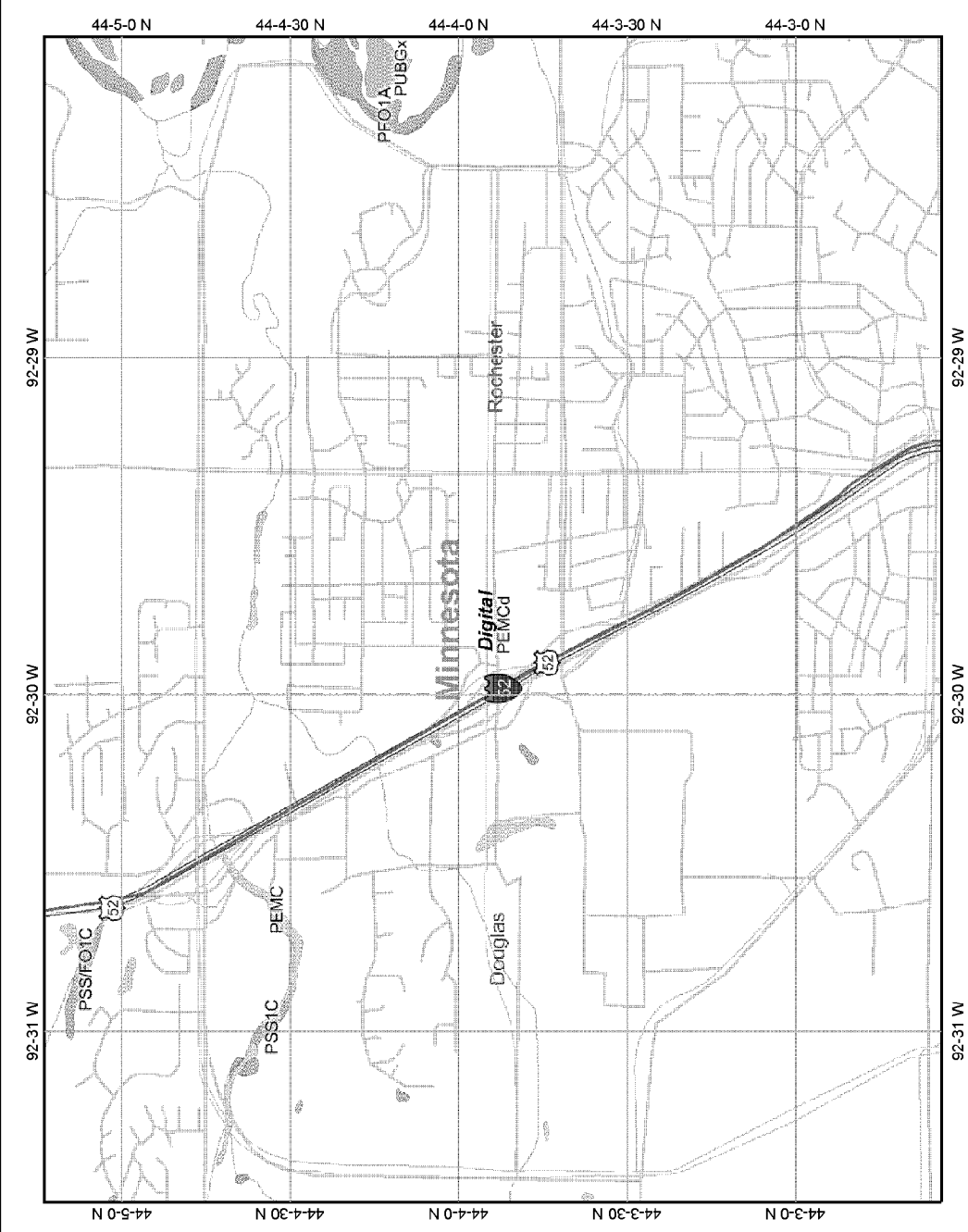


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

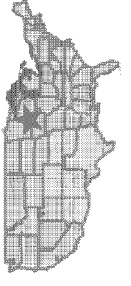
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Rochester



Map center: 44° 3' 54" N, 92° 29' 47" W



Legend

- Interstate
- Major Road
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:34,575

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

249984

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/29/1995
 Update Date 05/31/1995
 Received Date

Well Name IBM 813-W Township Range Dir Section Subsections Elevation 107 14 W 21 AADACC 1072 ft. Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 168 ft.	Depth Completed 168 ft.	Date Well Completed 00/00/1968
Drilling Method --		Drilling Fluid --		
Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Monitor well		
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter Weight Hole Diameter		
Open Hole from ft. to ft.		Screen Make Type		
Geological Material Color Hardness From To GLACIAL DRIFT 0 59 ST. PETER SANDSTONE 59 62 PRAIRIE DU CHIEN GROUP 62 168		Diameter Slot/Gauze Length Set Between		
Static Water Level ft. from Date Measured		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
REMARKS DEEPENED TO 168' IN 1968. RABEHL FARM WELL AT NORTH SIDE OF IBM SITE. NEAR MAIN ENTRANCE GUARD		Nearest Known Source of Contamination _feet _direction _type		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Other, note in remarks Date N/A		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		
System UTM - Nad83, Zone15, Meters X: 540044 Y: 4878957		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock St.Peter Aquifer Last Strat Prairie Du Chien Group Depth to Bedrock 59 ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
County Well Index Online Report		Well Contractor Certification Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller		
		249984		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

428183

County Olmsted
 Quad Douglas
 Quad ID 50D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/13/1989
 Update Date 05/06/2005
 Received Date

Well Name MW-823W Township Range Dir Section Subsections Elevation 107 14 W 21 ABAABD Elevation Method 1065 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 63 ft.	Depth Completed 62 ft.	Date Well Completed 08/21/1987
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Abandoned Status Sealed		
		Casing Type Stainless Steel Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 2.2 ft.		
		Casing Diameter 4 in. to 52 ft.	Weight lbs./ft.	Hole Diameter 10 in. to 47 ft. 8 in. to 63 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
		Diameter 4	Slot/Gauze 10	Length 10
		Set Between 52 ft. and 62 ft.		
Geological Material LEAN CLAY SILT SANDY LEAN CLAY SAND CLAYEY SAND SANDY LEAN CLAY SILT FAT CLAY SAND SANDY LEAN CLAY LIMESTONE		Color BROWN LT. BRN BROWN BROWN GRAY GRAY GRAY GRAY GRAY GRAY LT. BRN	Hardness SOFT MEDIUM MEDIUM MEDIUM GRAY HARD HARD HARD HARD HARD HARD HARD	From To 0 1 1 17 17 21 21 23 23 24 24 36 36 38 38 41 41 42 42 48 48 63
REMARKS WELL SEALED 10-17-1997 BY 27058 ORIGINAL USE MW - MONITOR WELL		Static Water Level 19.9 ft. from Land surface Date Measured 08/21/1987		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 48 ft. 0		
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Braun Eng Testing M0005 LILJA, M. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 48 ft.		County Well Index Online Report		428183
				Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

510136

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/25/1993
 Update Date 11/09/2007
 Received Date 09/28/1990

Minnesota Statutes Chapter 103I

Well Name MW		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		15 ft.	14 ft.	09/19/1990	
107	14 W 22 BABC	Elevation Method (USGS 7.5 min or equiv.)			
1040 ft. Calc from DFM (USGS 7.5 min or equiv.)		Drilling Method Power Auger			
Well Address 4001 19TH AV NW ROCHESTER MN Geological Material CLAY Color Hardness From To CLAY BROWN SOFT 0 8 SILT GRAY SOFT 8 15		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Abandoned Status Sealed			
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No Above/Below 3 ft.			
		Casing Diameter		Weight	Hole Diameter
		2 in. to 3.5 ft.		lbs./ft.	10 in. to 14 ft.
		Open Hole from ft. to ft.			
		Screen YES Make JOHNSON Type stainless steel			
		Diameter		Slot/Gauze	Length
2		10	10	4 ft. and 14 ft.	
Static Water Level					
4.6 ft. from Land surface Date Measured 09/19/1990					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information		Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER MN".		Grout Material: Bentonite		from 1 to 3 ft.	
WELL SEALED 05-08-1995 BY M0104		Grout Material: Neat Cement		from to 1 ft.	
ORIGINAL USE MW - MONITOR WELL		Nearest Known Source of Contamination			
Located Minnesota Department of Health		50 feet W direction Volatile organic compounds type			
Method Digitization (Screen) - Map (1:12,000)		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Unique Number Verification Site Plan		Pump <input type="checkbox"/> Not Installed Date Installed			
Date 05/18/2005		Manufacturer's name Model number HP Volts			
System UTM - Nad83, Zone15, Meters		Length of drop Pipe ft. Capacity g.p.m Type Material			
X: 540541 Y: 4879072		Abandoned Wells Does property have any not in use and not sealed well(s)?			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
First Bedrock		Braun Intertec Env. M0109 THONSON, G.			
Aquifer		License Business Name Lic. Or Reg. No. Name of Driller			
Last Strat		Depth to Bedrock ft.			
County Well Index Online Report		510136		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

511174

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/25/1993
 Update Date 11/09/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name MW Township Range Dir Section Subsections Elevation 1040 ft. 107 14 W 22 BBAD Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Well Depth 13 ft. Depth Completed 13 ft. Date Well Completed 09/21/1990 Drilling Method Power Auger												
Well Address 4001 19TH AV NW ROCHESTER MN Geological Material CLAY SILT <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>8</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>8</td> <td>13</td> </tr> </tbody> </table>		Color	Hardness	From	To	BROWN	SOFT	0	8	GRAY	SOFT	8	13	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Color	Hardness	From	To									
		BROWN	SOFT	0	8									
		GRAY	SOFT	8	13									
		Use Abandoned Status Sealed												
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2.6 ft.												
		<table border="1"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>2 in. to 2.5 ft.</td> <td>lbs./ft.</td> <td>10 in. to 13 ft.</td> </tr> </tbody> </table>	Casing Diameter	Weight	Hole Diameter	2 in. to 2.5 ft.	lbs./ft.	10 in. to 13 ft.						
		Casing Diameter	Weight	Hole Diameter										
		2 in. to 2.5 ft.	lbs./ft.	10 in. to 13 ft.										
		Open Hole from ft. to ft.												
Screen YES Make JOHNSON Type stainless steel														
<table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>10</td> <td>10</td> <td>2.5 ft and 12.5 ft</td> </tr> </tbody> </table>	Diameter	Slot/Gauze	Length	Set Between	2	10	10	2.5 ft and 12.5 ft						
Diameter	Slot/Gauze	Length	Set Between											
2	10	10	2.5 ft and 12.5 ft											
Static Water Level ft. from Date Measured														
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.														
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)														
REMARKS SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER MN". WELL SEALED 05-08-1995 BY M0104 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 1 to 2 ft. Grout Material: Neat Cement from to 1 ft.												
Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000) Unique Number Verification Site Plan Date 05/18/2005 System UTM - Nad83, Zone15, Meters X: 540523 Y: 4879072		Nearest Known Source of Contamination 15 feet N direction Volatile organic compounds type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
First Bedrock Last Strat		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Aquifer Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Braun Intertec Env. M0109 THRONSON, G. License Business Name Lic. Or Reg. No. Name of Driller												
County Well Index Online Report		511174 Printed 6/29/2008 HE-01205-07												

Minnesota Unique Well No.

511175

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 01/25/1993
 Update Date 11/09/2007
 Received Date 09/28/1990

Minnesota Statutes Chapter 103I

Well Name MW		Well Depth 13 ft.		Depth Completed 13 ft.		Date Well Completed 09/21/1990	
Township Range Dir Section Subsections Elevation		1041 ft. Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Power Auger			
107	14 W 22	BBADDA	Elevation Method				
Well Address 4001 19TH AV NW ROCHESTER MN				Drilling Fluid --			
				Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Use Abandoned Status Sealed			
				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/>			
				Yes <input checked="" type="checkbox"/> No Above/Below ft.			
Geological Material		Color	Hardness	From	To	Casing Diameter 10 in. to 13 ft.	
CLAY		BROWN		0	10		
CLAY		GRAY		10	13		
				Open Hole from ft. to ft.			
				Screen YES Make JOHNSON Type stainless steel			
		Diameter	Slot/Gauze	Length	Set Between		
		7	10	10	3 ft. and 13 ft.		
				Static Water Level ft. from Date Measured			
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
				Well Head Completion Pitless adapter manufacturer Model			
				<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER, MN". WELL SEALED 05-08-1995 BY M0104 ORIGINAL USE MW - MONITOR WELL				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
				Grout Material: Bentonite from 1 to 2 ft.			
				Grout Material: Neat Cement from to 1 ft.			
Located Minnesota Department of Health				Nearest Known Source of Contamination 20 feet S direction Volatile organic compounds type			
Method Digitization (Screen) - Map (1:12,000)				Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Unique Number				Pump <input type="checkbox"/> Not Installed Date Installed			
Verification Site Plan				Manufacturer's name Model number ___ HP ___ Volts			
System UTM - Nad83, Zone15, Meters				Length of drop Pipe ___ft. Capacity ___g.p.m Type Material			
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Well Contractor Certification			
First Bedrock		Aquifer		Braun Intertec Env. M0109 THRONSON, G.			
Last Strat		Depth to Bedrock ft.		License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report				511175		Printed 6/29/2008 HF-01205-07	

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 02/20/1995
Update Date 11/09/2007
Received Date 12/23/1993

Minnesota Unique Well No.

524408

County Olmsted
Quad Rochester
Quad ID 49C

*Minnesota Statutes Chapter
1031*

Well Name MW-		Well Depth	Depth Completed	Date Well Completed																
Township Range Dir Section Subsections Elevation		15 ft.	15 ft.	10/12/1993																
107	14 W 22 BABCCA	Elevation Method 1040 ft. Calc from DEM (USGS 7.5 min or equiv.)																		
		Drilling Method Auger (non-specified)																		
Well Address 4001 19TH AV NW ROCHESTER MN Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>TOPSOIL</td> <td>BLACK SOFT</td> <td>0</td> <td>1</td> </tr> <tr> <td>GRAVEL</td> <td>TAN HARD</td> <td>1</td> <td>6</td> </tr> <tr> <td>SANDY CLAY</td> <td>BROWN SOFT</td> <td>6</td> <td>15</td> </tr> </tbody> </table>		Color	Hardness	From	To	TOPSOIL	BLACK SOFT	0	1	GRAVEL	TAN HARD	1	6	SANDY CLAY	BROWN SOFT	6	15	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Color	Hardness	From	To															
		TOPSOIL	BLACK SOFT	0	1															
		GRAVEL	TAN HARD	1	6															
		SANDY CLAY	BROWN SOFT	6	15															
		--	From Ft. to Ft.																	
		Use Abandoned Status Sealed																		
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																		
		Casing Diameter		Weight	Hole Diameter															
		2 in. to 4.8 ft.		lbs./ft.	10 in. to 15 ft.															
Open Hole from ft. to ft.																				
Screen YES		Make TIMCO	Type plastic																	
Diameter	Slot/Gauze	Length	Set Between																	
2	10	10	5 ft. and 15 ft.																	
Static Water Level																				
ft. from Date Measured																				
PUMPING LEVEL (below land surface)																				
ft. after hrs. pumping g.p.m.																				
Well Head Completion																				
Pitless adapter manufacturer Model																				
<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade																				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONI.Y)																				
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
WELL SEALED 05-08-1995 BY M0104 ORIGINAL USE MW - MONITOR WELL		Grout Material: Neat Cement from to 1 ft.																		
Located Minnesota		Method Digitization (Screen) - Map																		
Department of Health		(1:12,000)																		
Unique Number		Date 06/14/2005																		
Verification Site Plan		X: 540564 Y: 4879086																		
System UTM - Nad83, Zone15, Meters		Nearest Known Source of Contamination																		
		150 feet South West direction Volatile organic compounds type																		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
		Pump <input type="checkbox"/> Not Installed Date Installed																		
		Manufacturer's name Model number __ HP _ Volts																		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material																		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>																		
		Yes <input checked="" type="checkbox"/> No																		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/>																		
		No																		

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Braun Intertec Eng</u> <u>M0104</u> <u>QUANDT, S.</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	524408	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

589849

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 05/28/2003
 Update Date 11/05/2007
 Received Date 05/05/2003

Minnesota Statutes Chapter 103I

<p>Well Name P7-2</p> <p>Township Range Dir Section Subsections Elevation 1020 ft. 107 14 W 14 CBCCCC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address 201 4TH ST SE ROCHESTER MN 55904</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>FILL</td> <td>BROWN</td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>LEAN CLAY STIFF</td> <td>BROWN</td> <td></td> <td>5</td> <td>6</td> </tr> <tr> <td>CLAYEY SAND</td> <td>BROWN</td> <td>SOFT</td> <td>6</td> <td>13</td> </tr> <tr> <td>SAND WITH SILT LOOSE</td> <td>BROWN</td> <td></td> <td>13</td> <td>17</td> </tr> <tr> <td>DOLOSTONE</td> <td>BROWN</td> <td>HARD</td> <td>17</td> <td>61</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	FILL	BROWN		0	5	LEAN CLAY STIFF	BROWN		5	6	CLAYEY SAND	BROWN	SOFT	6	13	SAND WITH SILT LOOSE	BROWN		13	17	DOLOSTONE	BROWN	HARD	17	61	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth 60.7 ft.</td> <td>Depth Completed 60.7 ft.</td> <td>Date Well Completed 04/03/2003</td> </tr> <tr> <td colspan="3">Drilling Method Auger (non-specified)</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Piezometer</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/></td> </tr> <tr> <td colspan="3">Yes <input checked="" type="checkbox"/> No Above/Below ft.</td> </tr> <tr> <td>Casing Diameter 2 in. to 50.7 ft.</td> <td>Weight lbs./ft.</td> <td>Hole Diameter 10 in. to 16.5 ft.</td> </tr> <tr> <td colspan="3">Open Hole from ft. to ft.</td> </tr> <tr> <td colspan="3">Screen YES Make JOHNSON Type stainless steel</td> </tr> <tr> <td>Diameter 2</td> <td>Slot/Gauze 10</td> <td>Length 10</td> </tr> <tr> <td colspan="3">Set Between 50.7 ft. and 60.7 ft.</td> </tr> <tr> <td colspan="3">Static Water Level 49.5 ft. from Land surface Date Measured 03/26/2003</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3" style="text-align: center;"><i>NO REMARKS</i></td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 1.5 to 42.5 ft. 2 bags</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. 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Minnesota Unique Well No.

677832

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date
 Update Date 05/06/2005
 Received Date 02/02/2004

<p>Well Name PZ-4 Township Range Dir Section Subsections Elevation 1020 ft. 107 14 W 15 DADB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 52.2 ft. Depth Completed 52.2 ft. Date Well Completed 07/18/2003 Drilling Method Non-specified Rotary</p>																								
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	<p>REMARKS AET #11-02323.2, SB 21 (#4)</p> <p>Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)</p> <p>Unique Number Verification Site Plan Date 05/06/2005</p> <p>System UTM - Nad83, Zone15, Meters X: 541623 Y: 4879783</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0.5 to 25.8 ft. 4 bags</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material</p>																							
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Minnesota Unique Well No.

719411

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 1031

<p>Well Name MW-4</p> <p>Township Range Dir Section Subsections Elevation 1059 ft. Calc from DEM (USGS 7.5 min or equiv.)</p> <p>107 14 W 22 BCAA Elevation Method</p>	<p>Well Depth 20 ft. Depth Completed 18 ft. Date Well Completed 09/28/2004</p> <p>Drilling Method Auger (non-specified)</p>																																													
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<p>REMARKS MW-4, 04-E-19307</p> <p>Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)</p> <p>Unique Number Verification Site Plan Date 05/09/2005</p> <p>System UTM - Nad83, Zone15, Meters X: 540454 Y: 4878786</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: High solids bentonite from to 2 ft. 1 bags</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																													
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<p>County Well Index Online Report</p>	<p style="text-align: center;">719411</p> <p style="text-align: right;">Printed 6/29/2008 HE-01205-07</p>																																													

Minnesota Unique Well No.

719412

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 103I

Well Name MW-6		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		20 ft.	18 ft.	09/28/2004	
107	14 W 22 BCAB	Elevation Method (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method Auger (non-specified)			
Well Address 2110 37TH ST NW ROCHESTER MN 55904		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Use Monitor well		From Ft. to Ft.	
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		No Above/Below ft.			
		Casing Diameter	Weight	Hole Diameter	
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.			
Open Hole		from ft. to ft.			
Screen YES		Make JOHNSON	Type plastic		
Geological Material	Color	Hardness	From	To	
NO RECOVERY			0	5	
RUBBLE/ROCKS SLIGHTLY SANDY		MEDIUM	5	7	
SILTY CLAY	BROWN	MEDIUM	8	10	
SILTY CLAY	BRN/GRY	MEDIUM	13	15	
SILTY CLAY	GRAY	MEDIUM	18	20	
Diameter		Slot/Gauze	Length	Set Between	
2		10	15	3 ft. and 18 ft.	
Static Water Level					
ft. from Date Measured					
PUMPING LEVEL (below land surface)					
ft. after hrs. pumping g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
<input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
MW-6, 04-E-19307		Grout Material: High solids bentonite from to 2 ft. 1 bags			
Located Minnesota Department of Health		Method Digitization (Screen) - Map (1:12,000)			
Unique Number		Date 05/09/2005			
Verification Site Plan					
System UTM - Nad83, Zone15, Meters		X: 540424 Y: 4878781			
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
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		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Well Contractor Certification			
First Bedrock		Bergerson-Caswell 27058 LENZMEIER, D.			
Last Strat		License Business Name Lic. Or Reg. No. Name of Driller			
Aquifer					
Depth to Bedrock ft.					
County Well Index Online Report		719412		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

719413

County Olmsted
 Quad Rochester
 Quad ID 49C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 103I

Well Name MW-3				Well Depth 20 ft.		Depth Completed 18 ft.		Date Well Completed 09/28/2004																																														
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				SANDY SILT, SILTY CLAY	BROWN	SOFT	8	10																																														
				NO RECORD			10	13																																														
				SILTY CLAY	BROWN	SOFT	13	15																																														
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Use Monitor well																																																						
Casing Type Plastic				Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																
Casing Diameter		Weight		Hole Diameter																																																		
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PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																																						
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																						
REMARKS MW-3, 04-E-19307				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from to 2 ft. 1 bags																																																		
Located Minnesota Department of Health				Method Digitization (Screen) - Map (1:12,000)																																																		
Unique Number Verification Site Plan				Date 05/09/2005																																																		
System UTM - Nad83, Zone15, Meters				X: 540458 Y: 4878801																																																		
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																						
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																																						
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																						
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																						
First Bedrock				Aquifer																																																		
Last Strat				Depth to Bedrock ft.																																																		
				Well Contractor Certification		Bergerson-Caswell 27058 LENZMEIER, D. License Business Name Lic. Or Reg. No. Name of Driller																																																

County Well Index Online Report	719413	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

719414

County Olnsted
 Quad Rochester
 Quad ID 49C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 02/28/2005
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 103I

<p>Well Name MW-5 Township Range Dir Section Subsections Elevation 1062 ft. 107 14 W 22 BCAB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 20 ft. Depth Completed 18 ft. Date Well Completed 09/29/2004 Drilling Method Auger (non-specified)</p>																																																	
<p>Well Address 2110 37TH ST NW ROCHESTER MN 55904</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>SANDY SILT</td> <td>BROWN</td> <td>SOFT</td> <td>5</td> <td>10</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>10</td> <td>13</td> </tr> <tr> <td>SANDY SILT SILTY CLAY</td> <td>BRN/GRY</td> <td>SOFT</td> <td>13</td> <td>15</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>15</td> <td>18</td> </tr> <tr> <td>SILTY CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>18</td> <td>20</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	NO RECORD			0	5	SANDY SILT	BROWN	SOFT	5	10	NO RECORD			10	13	SANDY SILT SILTY CLAY	BRN/GRY	SOFT	13	15	NO RECORD			15	18	SILTY CLAY	GRAY	SOFT	18	20	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.</p> <p>Use Monitor well</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>2 in. to 3 ft.</td> <td>lbs./ft.</td> <td>8.25 in. to 20 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type plastic</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>10</td> <td>15</td> <td>3 ft. and 18 ft.</td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.	Diameter	Slot/Gauze	Length	Set Between	2	10	15	3 ft. and 18 ft.
	Geological Material	Color	Hardness	From	To																																													
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	SANDY SILT	BROWN	SOFT	5	10																																													
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	2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.																																															
Diameter	Slot/Gauze	Length	Set Between																																															
2	10	15	3 ft. and 18 ft.																																															
<p>REMARKS MW-5, 04-F-19307</p> <p>Located Minnesota Department of Health Method Digitization (Screen) - Map (1:12,000)</p> <p>Unique Number Date 05/09/2005</p> <p>Verification Site Plan</p> <p>System UTM - Nad83, Zone15, Meters X: 540416 Y: 4878803</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 2.5 ft. 1 bags</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																																	
<p>First Bedrock Aquifer Last Strat Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> <u>LENZMEIER, D.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																	

County Well Index Online Report	719414	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

719415

County Olmsted
 Quad Rochester
 Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 103I

Well Name MW-2		Well Depth 20 ft.	Depth Completed 18 ft.	Date Well Completed 09/28/2004
Township Range Dir Section Subsections Elevation 107 14 W 22 BCAB Elevation Method		1061 ft. Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method Auger (non-specified)				
Well Address 2110 37TH ST NW ROCHESTER MN 55904		Drilling Fluid --		
Geological Material		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
Color		Use Monitor well		
Hardness		Casing Type Plastic Joint Threaded <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.		
From		Casing Diameter 2 in. to 3 ft. Weight lbs./ft. Hole Diameter 8.25 in. to 20 ft.		
To		Open Hole from ft. to ft.		
NO RECORD 0 5		Screen YES Make JOHNSON Type plastic		
SAND, SANDY SILT BRN/GRY SOFT 5 7		Diameter 2 Slot/Gauze 10 Length 15 Set Between 3 ft. and 18 ft.		
NO RECORD 7 8		Static Water Level		
SANDY SILT, SAND, SILTY CLAY GRY/BLK SOFT 8 10		ft. from Date Measured		
NO RECORD 10 13		PUMPING LEVEL (below land surface)		
SILTY CLAY GRY/BRN SOFT 13 15		ft. after hrs. pumping g.p.m.		
NO RECORD 15 18		Well Head Completion		
SILTY CLAY GRAY MEDIUM 18 20		Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS MW-2, 04-E-19307		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from to 2 ft. 1 bags		
Located Minnesota Department of Health		Method Digitization (Screen) - Map (1:12,000)		
Unique Number		Nearest Known Source of Contamination _feet _direction _type		
Verification Site Plan		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15. Meters		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
X: 540433 Y: 4878806		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Aquifer		Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> <u>LENZMEIER, D.</u> License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat		Depth to Bedrock ft.		
County Well Index Online Report		719415		Printed 6/29/2008 HF-01205-07

Minnesota Unique Well No.

719416

County Olmsted
 Quad Rochester
 Quad ID 49C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date
 Update Date 11/09/2007
 Received Date 11/12/2004

Minnesota Statutes Chapter 103I

Well Name MW-1				Well Depth 20 ft.		Depth Completed 18 ft.		Date Well Completed 09/28/2004																																														
Township Range Dir Section Subsections Elevation				1059 ft.																																																		
107 14 W 22 BCAA				Calc from DEM																																																		
Elevation Method				(USGS 7.5 min or equiv.)		Drilling Method		Auger (non-specified)																																														
Well Address 2110 37TH ST NW ROCHESTER MN 55904 <table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>COARSE SAND, SANDY SILT</td> <td>BRN/GRY</td> <td>MEDIUM</td> <td>5</td> <td>7</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>7</td> <td>8</td> </tr> <tr> <td>SANDY SILT</td> <td>GRAY</td> <td>SOFT</td> <td>8</td> <td>10</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>10</td> <td>13</td> </tr> <tr> <td>SANDY SILT CLAYEY SILT</td> <td>GRAY</td> <td>SOFT</td> <td>13</td> <td>15</td> </tr> <tr> <td>NO RECORD</td> <td></td> <td></td> <td>15</td> <td>18</td> </tr> <tr> <td>CLAYEY SILT</td> <td>GRAY</td> <td>SOFT</td> <td>18</td> <td>20</td> </tr> </table>				Geological Material	Color	Hardness	From	To	NO RECORD			0	5	COARSE SAND, SANDY SILT	BRN/GRY	MEDIUM	5	7	NO RECORD			7	8	SANDY SILT	GRAY	SOFT	8	10	NO RECORD			10	13	SANDY SILT CLAYEY SILT	GRAY	SOFT	13	15	NO RECORD			15	18	CLAYEY SILT	GRAY	SOFT	18	20	Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
				Geological Material	Color	Hardness	From	To																																														
				NO RECORD			0	5																																														
				COARSE SAND, SANDY SILT	BRN/GRY	MEDIUM	5	7																																														
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				CLAYEY SILT	GRAY	SOFT	18	20																																														
		--		From Ft. to Ft.																																																		
Use		Monitor well																																																				
Casing Type		Plastic		Joint		No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																														
		No		Above/Below		ft.																																																
Casing Diameter		2 in. to 3 ft.		Weight		lbs./ft.		Hole Diameter																																														
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Open Hole		from ft. to ft.																																																				
Screen		YES		Make		JOHNSON		Type																																														
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Diameter		2		Slot/Gauze		10		Length																																														
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Static Water Level		ft. from Date Measured																																																				
PUMPING LEVEL (below land surface)		ft. after hrs. pumping g.p.m.																																																				
Well Head Completion		Pitless adapter manufacturer Model																																																				
		<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade																																																		
		<input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																				
REMARKS				Grouting Information																																																		
MW-1, 04-E-19307				Well Grouted?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																
Located		Minnesota Department of Health		Method		Digitization (Screen) - Map (1:12,000)																																																
Unique Number				Date		05/09/2005																																																
Verification		Site Plan																																																				
System		UTM - Nad83, Zone15, Meters		X:		540452		Y:																																														
						4878807																																																
Nearest Known Source of Contamination		_feet _direction _type																																																				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
Pump		<input type="checkbox"/> Not Installed		Date Installed																																																		
		Manufacturer's name		Model number		HP		Volts																																														
		Length of drop Pipe		ft.		Capacity		g.p.m																																														
						Type		Material																																														
Abandoned Wells		Does property have any not in use and not sealed well(s)?																																																				
		<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No																																																		
Variance		Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes																																																				
		<input checked="" type="checkbox"/> No																																																				
Well Contractor Certification																																																						
		<u>Bergerson-Caswell</u>		<u>27058</u>		<u>LENZMEIER, D.</u>																																																
License Business Name		Lic. Or Reg. No.		Name of Driller																																																		
County Well Index Online Report				719416		Printed 6/29/2008 HE-01205-07																																																

SITE SUMMARY

Site Name: Silver Lake

Fire Department: Silver Lake Fire Department
308 W. Main
Silver Lake, MN 55381

Site Contact: Dale Kosek, Assistant Fire Chief
320-327-2412
dale.kosek@mchsi.com

Training Location: Public works material storage area, 305 E. Main Street, Silver Lake

Type of foam used in training: AFFF: Angus Tridex

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 3 to 5 gallons

Nearest surface water: Silver Lake, less than 1/4 mile southwest

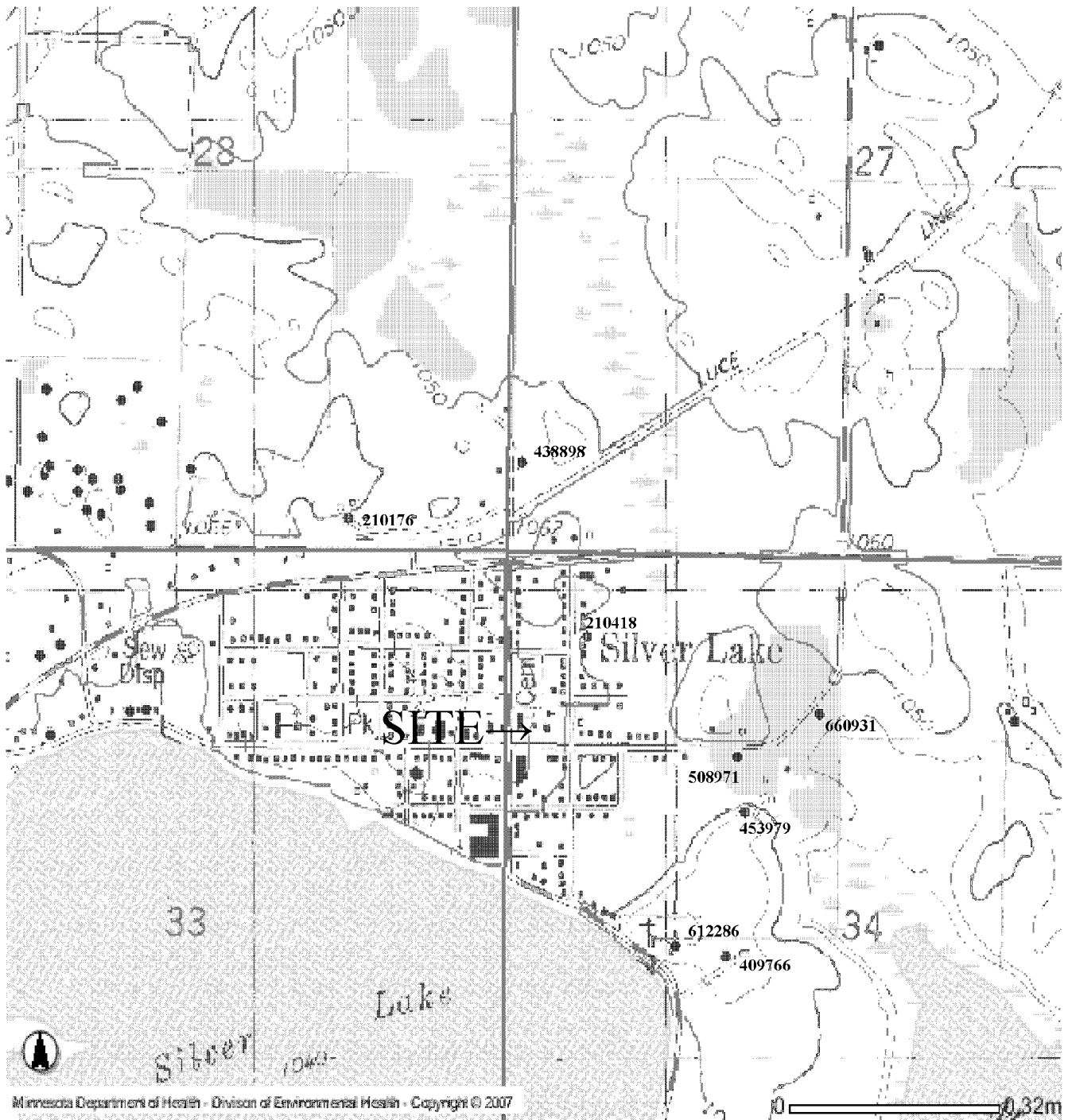
Nearest wetland: Approximately 1/4 mile east

Nearest water well: Less than 1/4 mile northeast

Nearest Wellhead Protection Area: More than 1 mile

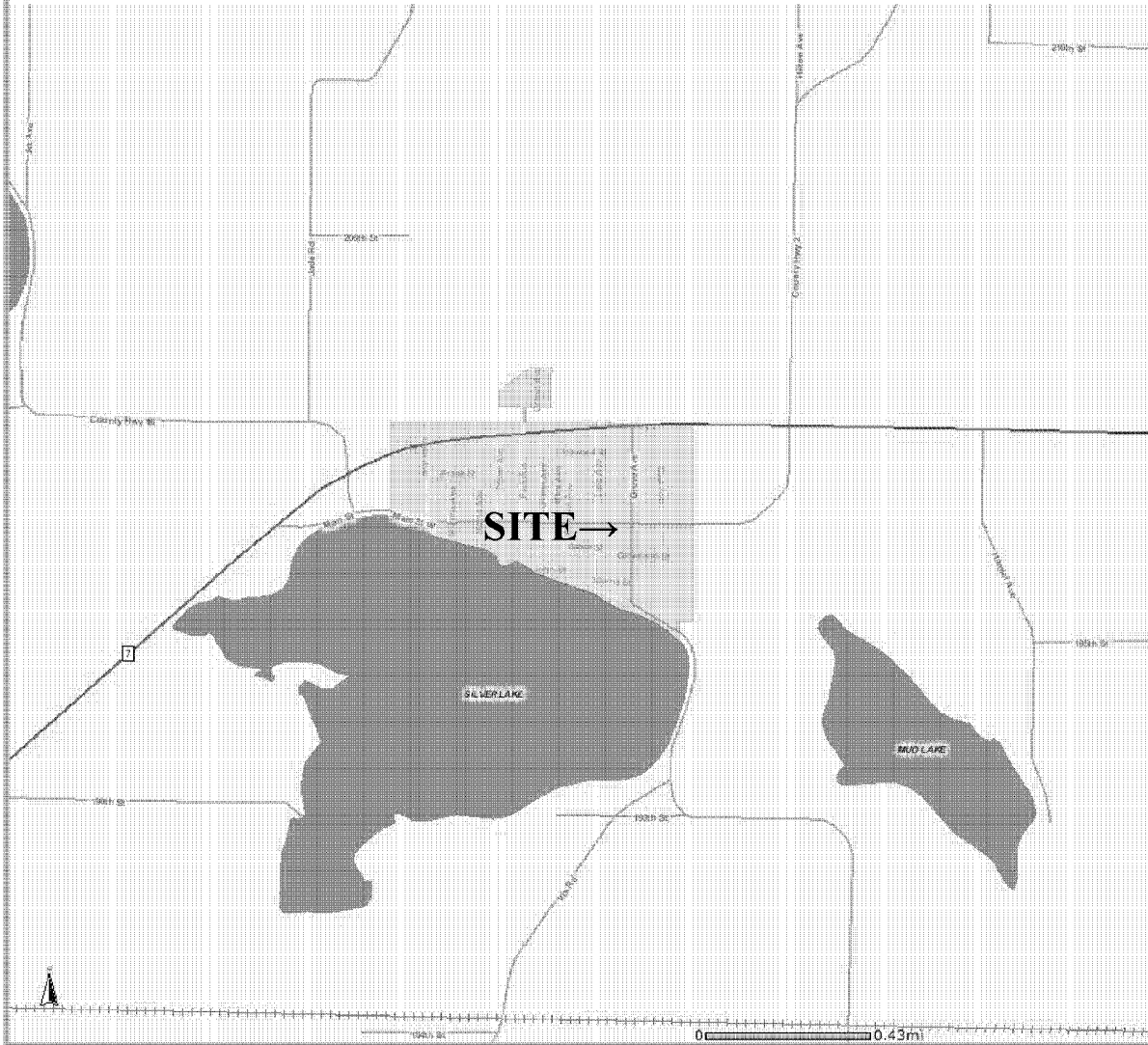
SITE RANKING: 11

SILVER LAKE CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Silver Lake What's In My Neighborhood Map

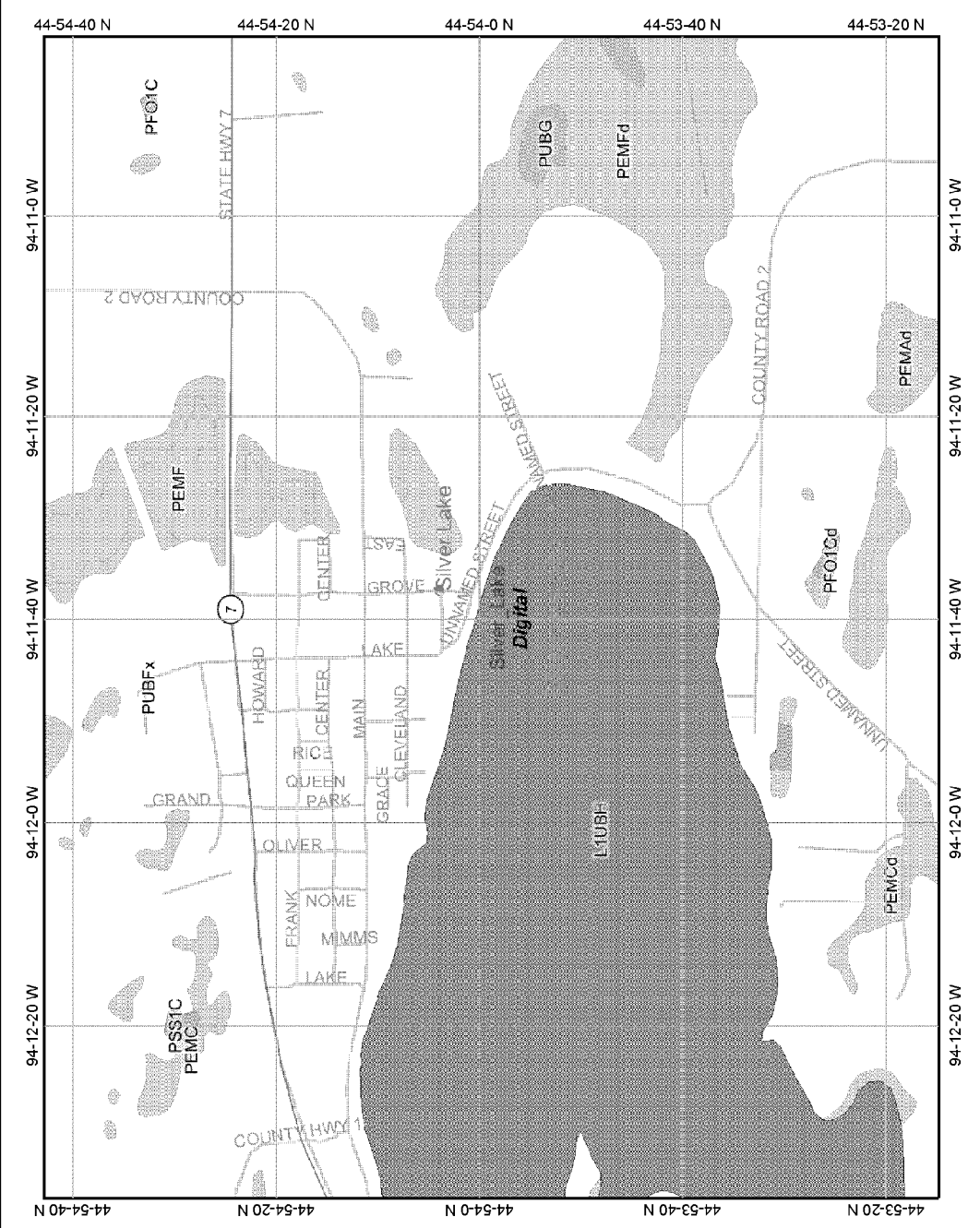


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

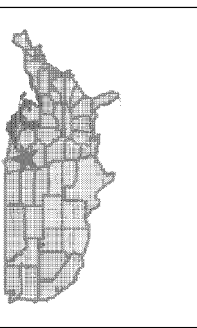
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Silver Lake Wetland Map



Map center: 44° 53' 59" N, 94° 11' 40" W



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Major Roads
 - Interstate
 - Other Road
 - Interstate
 - State highway
 - US highway
- Roads
 - Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:19,055

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

210176

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 01/09/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name STERNER INC.		Well Depth 116 ft.	Depth Completed 116 ft.	Date Well Completed 11/27/1974																																													
Township Range Dir Section Subsections Elevation 117 28 W 28 DDCCBB Elevation Method topographic map (+/- 5 feet)		Drilling Method --																																															
<table border="0" style="width:100%;"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td></td> <td>2</td> <td>16</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>16</td> <td>34</td> </tr> <tr> <td>SANDY CLAY</td> <td>BLUE</td> <td></td> <td>34</td> <td>38</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>38</td> <td>84</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td></td> <td>84</td> <td>85</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td></td> <td>85</td> <td>109</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td></td> <td>109</td> <td>116</td> </tr> </table>		Geological Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	2	CLAY	YELLOW		2	16	CLAY	BLUE		16	34	SANDY CLAY	BLUE		34	38	CLAY	BLUE		38	84	SAND	BROWN		84	85	CLAY	BLUE		85	109	SAND	GRAY		109	116	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																											
		TOP SOIL	BLACK		0	2																																											
		CLAY	YELLOW		2	16																																											
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		SANDY CLAY	BLUE		34	38																																											
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		SAND	BROWN		84	85																																											
		CLAY	BLUE		85	109																																											
		SAND	GRAY		109	116																																											
Use Commercial		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																																															
		Casing Diameter 4 in. to 112 ft.	Weight lbs./ft.	Hole Diameter																																													
		Open Hole from ft. to ft.																																															
		Screen YES	Make	Type stainless steel																																													
		Diameter 4	Slot/Gauze 12	Length 4																																													
		Set Between 112 ft. and 116 ft.																																															
		Static Water Level 45 ft. from Land surface Date Measured 11/27/1974																																															
		PUMPING LEVEL (below land surface) 90 ft. after hrs. pumping 4 g.p.m.																																															
		Well Head Completion Pitless adapter manufacturer WHITEWATER Model SU4 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																															
<p style="text-align:center">NO REMARKS</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 405216 Y: 4973368</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Nearest Known Source of Contamination _feet _direction _type																																															
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 12/13/1974 Manufacturer's name <u>BERKELEY</u> Model number <u>4AM8</u> _ HP <u>0.33</u> Volts Length of drop Pipe <u>84</u> ft. Capacity _g.p.m. Type <u>Submersible</u> Material																																															
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Well Contractor Certification <u>Fredericksons Inc.</u> <u>43099</u> <u>HITTESDORF, J</u> License Business Name Lic. Or Reg. No. Name of Driller																																															
First Bedrock		Aquifer Quat. Buried Artes. Aquifer																																															
Last Strat Sand-gray		Depth to Bedrock ft.																																															
County Well Index Online Report		210176		Printed 6/28/2008 HE-01205-07																																													

Minnesota Unique Well No.

210418

County McLeod
 Quad Silver Lake
 Quad ID 107B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/11/1988
 Update Date 01/10/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name BARTON, HAROLD				Well Depth 121 ft.		Depth Completed 121 ft.		Date Well Completed 09/15/1961		
Township Range Dir Section Subsections Elevation 117 28 W 34 BBBDDC Elevation Method topographic map (+/- 5 feet)				1050 ft. 7.5 minute						
				Drilling Method --						
				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.				
				Use Domestic						
				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.						
				Casing Diameter 4 in. to 118 ft.		Weight lbs./ft.		Hole Diameter		
				Open Hole from ft. to ft.						
				Screen YES Make Type						
				Diameter 4		Slot/Gauze 18		Length 3		Set Between 118 ft. and 121 ft.
Well Address 7 SH SILVER LAKE MN 55381										
Geological Material				Color		Hardness		From To		
DIRT				BLACK		0		3		
CLAY				YELLOW		3		35		
CLAY				BLUE		35		115		
COARSE SAND						115		121		
				Static Water Level 22 ft. from Land surface Date Measured 09/15/1961						
				PUMPING LEVEL (below land surface) 32 ft. after 2 hrs. pumping 20 g.p.m.						
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS SAMPLE NO. 601508				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Nearest Known Source of Contamination _feet _direction _type						
Unique Number Verification N/A Date N/A				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No						
System UTM - Nad83, Zone15, Meters X: 405795 Y: 4973116				Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0.5 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Jet Material						
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Well Contractor Certification Heil Well Co. 43085 HEIL, C. License Business Name Lic. Or Reg. No. Name of Driller						
First Bedrock Last Strat Sand				Aquifer Quat. Buried Artes. Aquifer		Depth to Bedrock ft.				
County Well Index Online Report				210418		Printed 6/28/2008 HE-01205-07				

Minnesota Unique Well No.

409766

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/11/1991
 Update Date 01/10/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name STIEBEL, LENARD		Well Depth 160 ft.	Depth Completed 160 ft.	Date Well Completed 09/12/1989																																																		
Township Range Dir Section Subsections Elevation 117 28 W 34 CABACB Elevation Method		1065 ft. 7.5 minute topographic map (+/- 5 feet)																																																				
		Drilling Method Non-specified Rotary																																																				
Well Address 19434 2 CR SILVER LAKE MN 55381 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>CLAY</td><td>BLACK</td><td>SOFT</td><td>0</td><td>6</td></tr> <tr><td>CLAY</td><td>YELLOW</td><td>SOFT</td><td>6</td><td>12</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>MEDIUM</td><td>12</td><td>46</td></tr> <tr><td>MUD & SAND</td><td>GRAY</td><td>SOFT</td><td>46</td><td>52</td></tr> <tr><td>CLAY</td><td>GRAY</td><td>MEDIUM</td><td>52</td><td>130</td></tr> <tr><td>CLAY & ROCK</td><td>GRAY</td><td>HARD</td><td>130</td><td>142</td></tr> <tr><td>FINE SAND</td><td>VARIED</td><td>SOFT</td><td>142</td><td>147</td></tr> <tr><td>CLAY, SAND</td><td>GRAY</td><td>MEDIUM</td><td>147</td><td>152</td></tr> <tr><td>SAND</td><td>VARIED</td><td>HARD</td><td>152</td><td>160</td></tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CLAY	BLACK	SOFT	0	6	CLAY	YELLOW	SOFT	6	12	CLAY	GRAY	MEDIUM	12	46	MUD & SAND	GRAY	SOFT	46	52	CLAY	GRAY	MEDIUM	52	130	CLAY & ROCK	GRAY	HARD	130	142	FINE SAND	VARIED	SOFT	142	147	CLAY, SAND	GRAY	MEDIUM	147	152	SAND	VARIED	HARD	152	160	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																																
		CLAY	BLACK	SOFT	0	6																																																
		CLAY	YELLOW	SOFT	6	12																																																
		CLAY	GRAY	MEDIUM	12	46																																																
		MUD & SAND	GRAY	SOFT	46	52																																																
		CLAY	GRAY	MEDIUM	52	130																																																
		CLAY & ROCK	GRAY	HARD	130	142																																																
		FINE SAND	VARIED	SOFT	142	147																																																
		CLAY, SAND	GRAY	MEDIUM	147	152																																																
SAND	VARIED	HARD	152	160																																																		
		Use Domestic																																																				
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below -8 ft.																																																				
		Casing Diameter in. to 155 ft.	Weight lbs./ft.	Hole Diameter 6 in. to 160 ft.																																																		
		Open Hole from ft. to ft.																																																				
		Screen YES Make JOHNSON Type stainless steel																																																				
		Diameter 5	Slot/Gauze 15	Length 5.5																																																		
		Set Between 155 ft. and 160 ft.																																																				
		Static Water Level 40 ft. from Land surface Date Measured 09/03/1989																																																				
		PUMPING LEVEL (below land surface) 45 ft. after 2 hrs. pumping 34 g.p.m.																																																				
		Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																				
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 05/22/2003 System UTM - Nad83, Zone15, Meters X: 406131 Y: 4972435		Grout Material: Bentonite from to ft.																																																				
		Grout Material: Cuttings from to ft.																																																				
		Nearest Known Source of Contamination 65 feet South West direction Septic tank/drain field type																																																				
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Pump <input type="checkbox"/> Not Installed Date Installed 09/03/1989 Manufacturer's name LOWEY-GOULD'S Model number ___ HP 0.75 Volts 220 Length of drop Pipe 90 ft. Capacity 11 g.p.m Type Submersible Material Plastic																																																				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																				
		Well Contractor Certification Mathews Well Co. 43238 MATHEWS. License Business Name Lic. Or Reg. No. Name of Driller																																																				
First Bedrock	Aquifer Quat. Buried Artes. Aquifer																																																					
Last Strat Sand	Depth to Bedrock ft.																																																					

County Well Index Online Report	409766	Printed 6/28/2008 HE-01205-07
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Minnesota Unique Well No.

438898

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/18/1991
 Update Date 01/11/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name ARDOLF, CHARLIE		Well Depth 137 ft.	Depth Completed 137 ft.	Date Well Completed 06/06/1988
Township Range Dir Section Subsections Elevation 117 28 W 27 CCCBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary		
Well Address RR 1 SILVER LAKE MN 55381		Drilling Fluid Other	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below -6 ft.		
		Casing Diameter 4 in. to 133 ft.	Weight lbs./ft.	Hole Diameter 6.25 in. to 137 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	20
CLAY	BLUE		20	90
SAND			90	95
CLAY	BLUE		95	125
WATER SAND			125	137
		Diameter 4 Slot/Gauze 15 Length 4 Set Between 133 ft. and 137 ft.		
		Static Water Level 38 ft. from Land surface Date Measured 06/06/1988		
		PUMPING LEVEL (below land surface) 45 ft. after 3 hrs. pumping 40 g.p.m.		
		Well Head Completion Pitless adapter manufacturer WIIITEWATER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS WELL DRILLED W/ WYO JELL PLUS.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 6 to 30 ft. 0.2 yds. Grout Material: Cuttings from 30 to 105 ft. 0.7 yds.		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination 75 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Date 08/11/2005		Pump <input type="checkbox"/> Not Installed Date Installed 06/08/1988 Manufacturer's name AERMOTOR Model number SD1250 HP 0.5 Volts 230 Length of drop Pipe 54 ft. Capacity 12 g.p.m. Type Submersible Material Galvanized		
Verification Information from owner Date 08/11/2005		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
System UTM - Nad83, Zone15. X: 405638 Y: 4973486 Meters		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Aquifer Quat. Buried Artes. Aquifer		Well Contractor Certification Mattson Well Co. 86108 OESTRIECH, D. License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand Depth to Bedrock ft.				

County Well Index Online Report	438898	Printed 6/28/2008 HE-01205-07
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Minnesota Unique Well No.

453979

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/18/1991
 Update Date 08/15/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name WRASPIR, HENRY MRS		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		230 ft.	230 ft.	09/16/1988
117	28 W 34 BDBDAD	Elevation Method topographic map (+/- 5 feet)		
Well Address 19778 2 CR SILVER LAKE MN 55381		Drilling Method Non-specified Rotary		
Geological Material		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
SOIL	BLACK	Bentonite	From Ft. to Ft.	
CLAY	YELLOW	Use Domestic		
CLAY	GRAY	Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
DIRTY SAND	YELLOW	No Above/Below 2 ft.		
CLAY	YEL/GRY	Casing Diameter	Weight	Hole Diameter
CLAY	GRAY	4 in. to 226 ft.	1.9 lbs./ft.	7 in. to 230 ft.
CLAY	GREEN	Open Hole from ft. to ft.		
SAND	GREEN	Screen YES Make JOHNSON Type stainless steel		
		Diameter	Slot/Gauze	Length
		4	13	4
		Set Between	226 ft. and 230 ft.	
		Static Water Level		
		39 ft. from Land surface Date Measured 09/16/1988		
		PUMPING LEVEL (below land surface)		
		60 ft. after 1 hrs. pumping 40 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer MONITOR Model SNAPPY		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Bentonite		from 0 to 50 ft. 0.33 yds.
		Grout Material: Cuttings		from to ft.
		Nearest Known Source of Contamination		
Located Minnesota Geological Survey		50 feet N direction Old/other well type		
Method Digitization (Screen) - Map (1:24,000)		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number		Pump <input type="checkbox"/> Not Installed Date Installed 09/19/1988		
Verification Information from neighbor		Manufacturer's name MYERS Model number 5 10 BM		
Date 05/22/2003		HP 0.5 Volts 230		
System UTM - Nad83, Zone15, Meters X: 406178 Y: 4972743		Length of drop Pipe 60 ft. Capacity 10 g.p.m		
		Type Submersible Material Plastic		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
		Heil Well Co. 43085 HEIL, R.		
		License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		453979		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

508971

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 09/28/1991
 Update Date 01/10/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name WRASPIR, GLEN Township Range Dir Section Subsections Elevation 1047 ft. 117 28 W 34 BDBABA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 118 ft. Depth Completed 118 ft. Date Well Completed 06/26/1990 Drilling Method Non-specified Rotary																																				
Well Address 19788 2 CR SILVER LAKE MN 55381 <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>SOIL</td> <td>BLACK</td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td>SOFT</td> <td>2</td> <td>16</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>MEDIUM</td> <td>16</td> <td>86</td> </tr> <tr> <td>SANDY CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>86</td> <td>93</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>MEDIUM</td> <td>93</td> <td>113</td> </tr> <tr> <td>SAND</td> <td>YELLOW</td> <td>SOFT</td> <td>113</td> <td>118</td> </tr> </table>		Geological Material	Color	Hardness	From	To	SOIL	BLACK		0	2	CLAY	YELLOW	SOFT	2	16	CLAY	GRAY	MEDIUM	16	86	SANDY CLAY	GRAY	SOFT	86	93	CLAY	GRAY	MEDIUM	93	113	SAND	YELLOW	SOFT	113	118	Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																
		SOIL	BLACK		0	2																																
		CLAY	YELLOW	SOFT	2	16																																
		CLAY	GRAY	MEDIUM	16	86																																
		SANDY CLAY	GRAY	SOFT	86	93																																
		CLAY	GRAY	MEDIUM	93	113																																
		SAND	YELLOW	SOFT	113	118																																
		Use Domestic																																				
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.																																				
Casing Diameter 4 in. to 114 ft. Weight 1.9 lbs./ft. Hole Diameter 8 in. to 118 ft.																																						
Open Hole from ft. to ft.																																						
Screen YES Make JOHNSON Type stainless steel Diameter 4 Slot/Gauze 15 Length 4 Set Between 114 ft. and 118 ft.																																						
Static Water Level 28.5 ft. from Land surface Date Measured 06/26/1990																																						
PUMPING LEVEL (below land surface) 60 ft. after 1 hrs. pumping 35 g.p.m.																																						
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PL414C1 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																						
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 30 ft. Grout Material: Bentonite from 30 to 85 ft.																																				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 05/22/2003 System UTM - Nad83, Zone15, Meters X: 406160 Y: 4972860		Nearest Known Source of Contamination 50 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																				
		Pump <input type="checkbox"/> Not Installed Date Installed 07/24/1990 Manufacturer's name JACUZZI Model number 5S410-8 HP 0.5 Volts 230 Length of drop Pipe 50 ft. Capacity 10 g.p.m. Type Submersible Material Plastic																																				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																				
First Bedrock Last Strat Sand-yellow		Well Contractor Certification Heil Well Co. 43085 HEIL, R. License Business Name Lic. Or Reg. No. Name of Driller																																				
County Well Index Online Report		508971 Printed 6/28/2008 HF-01205-07																																				

Minnesota Unique Well No.

612286

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 01/24/2001
 Update Date 01/10/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name JACOBS, STEVE		Well Depth 168 ft.	Depth Completed 168 ft.	Date Well Completed 08/30/1998
Township Range Dir Section Subsections Elevation 117 28 W 34 CABBBB Elevation Method topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary		
Well Address 19434 2 CR SILVER LAKE MN 55381		Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
Geological Material		Use Domestic		
CLAY	TAN	MEDIUM	0	23
CLAY & SAND	GRAY	MEDIUM	23	157
ROCKS	GRAY	V.HARD	157	160
SAND	GRAY	MEDIUM	160	168
Casing Type Plastic Joint Glued Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		Casing Diameter 4 in. to 163 ft. Weight lbs./ft. Hole Diameter 7.75 in. to 168 ft.		
Open Hole from ft. to ft.		Screen YES Make JOHNSON Type stainless steel		
Static Water Level 38 ft. from Land surface Date Measured 08/30/1998		Diameter 4 Slot/Gauze 18 Length 5 Set Between 163 ft. and 168 ft.		
PUMPING LEVEL (below land surface) ft. after 1 hrs. pumping 40 g.p.m.		Well Head Completion Pitless adapter manufacturer MONITOR Model 6PS45 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS UNSEALED WELL ON PROPERTY WILL BE SEALED		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 90 ft. 8 bags		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination 110 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Date 05/22/2003		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name ELINT & WALLING Model number SBA10 HP 0.5 Volts 220 Length of drop Pipe 63 ft. Capacity 12 g.p.m. Type Submersible Material		
Verification Address verification System UTM - Nad83, Zone15, Meters X: 406009 Y: 4972458		Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Aquifer Quat. Buried Artes. Aquifer		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Last Strat Sand-gray Depth to Bedrock ft.		Well Contractor Certification Geib Well Co. 72027 GEIB, D License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		612286		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

660931

County McLeod
 Quad Silver Lake
 Quad ID 107B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/12/2002
 Update Date 01/11/2006
 Received Date

Minnesota Statutes Chapter 103I

Well Name NOWAK, DALE		Well Depth 129 ft.	Depth Completed 123 ft.	Date Well Completed 09/26/2001																																			
Township Range Dir Section Subsections Elevation 117 28 W 34 BADDAB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary																																					
Well Address 563 MAIN ST E SILVER LAKE MN 55381 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>TOP SOIL</td><td>BLACK</td><td></td><td>0</td><td>1</td></tr> <tr><td>SANDY CLAY</td><td>BROWN</td><td></td><td>1</td><td>17</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td></td><td>17</td><td>72</td></tr> <tr><td>SANDY CLAY W/SAND LENSES</td><td>GRAY</td><td></td><td>72</td><td>93</td></tr> <tr><td>SANDY CLAY/PEBBLES</td><td>GRAY</td><td></td><td>93</td><td>115</td></tr> <tr><td>SAND</td><td>YEL/GRY</td><td></td><td>115</td><td>129</td></tr> </tbody> </table>		Material	Color	Hardness	From	To	TOP SOIL	BLACK		0	1	SANDY CLAY	BROWN		1	17	SANDY CLAY	GRAY		17	72	SANDY CLAY W/SAND LENSES	GRAY		72	93	SANDY CLAY/PEBBLES	GRAY		93	115	SAND	YEL/GRY		115	129	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Material	Color	Hardness	From	To																																	
		TOP SOIL	BLACK		0	1																																	
		SANDY CLAY	BROWN		1	17																																	
		SANDY CLAY	GRAY		17	72																																	
		SANDY CLAY W/SAND LENSES	GRAY		72	93																																	
		SANDY CLAY/PEBBLES	GRAY		93	115																																	
		SAND	YEL/GRY		115	129																																	
		Use Domestic																																					
		Casing Type Plastic Joint Glued <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.																																					
Casing Diameter 4 in. to 119 ft.		Weight lbs./ft.	Hole Diameter 6.25 in. to 129 ft.																																				
Open Hole from ft. to ft.																																							
Screen YES Make JOHNSON Type stainless steel																																							
Diameter 4		Slot/Gauze 20	Length 4	Set Between 119 ft and 123 ft.																																			
Static Water Level 24 ft. from Land surface Date Measured 09/26/2001																																							
PUMPING LEVEL (below land surface) 26 ft. after hrs. pumping 100 g.p.m.																																							
Well Head Completion Pitless adapter manufacturer MONITOR Model 6PS45B54C <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																							
NO REMARKS Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 08/11/2005 System UTM - Nad83, Zone15, Meters X: 406360 Y: 4972952		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 6 to 65 ft. 2 bags																																					
		Nearest Known Source of Contamination 150 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
		Pump <input type="checkbox"/> Not Installed Date Installed 09/26/2001 Manufacturer's name AERMOTOR Model number S20-75 HP 0.75 Volts 230 Length of drop Pipe 63 ft Capacity 20 g.p.m Type Submersible Material																																					
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
		Well Contractor Certification L.t.p. Enterprises, Inc. 91686 GRIMM, G. License Business Name Lic. Or Reg. No. Name of Driller																																					
		First Bedrock	Aquifer Quat. Buried Artes. Aquifer																																				
		Last Strat Sand	Depth to Bedrock ft.																																				

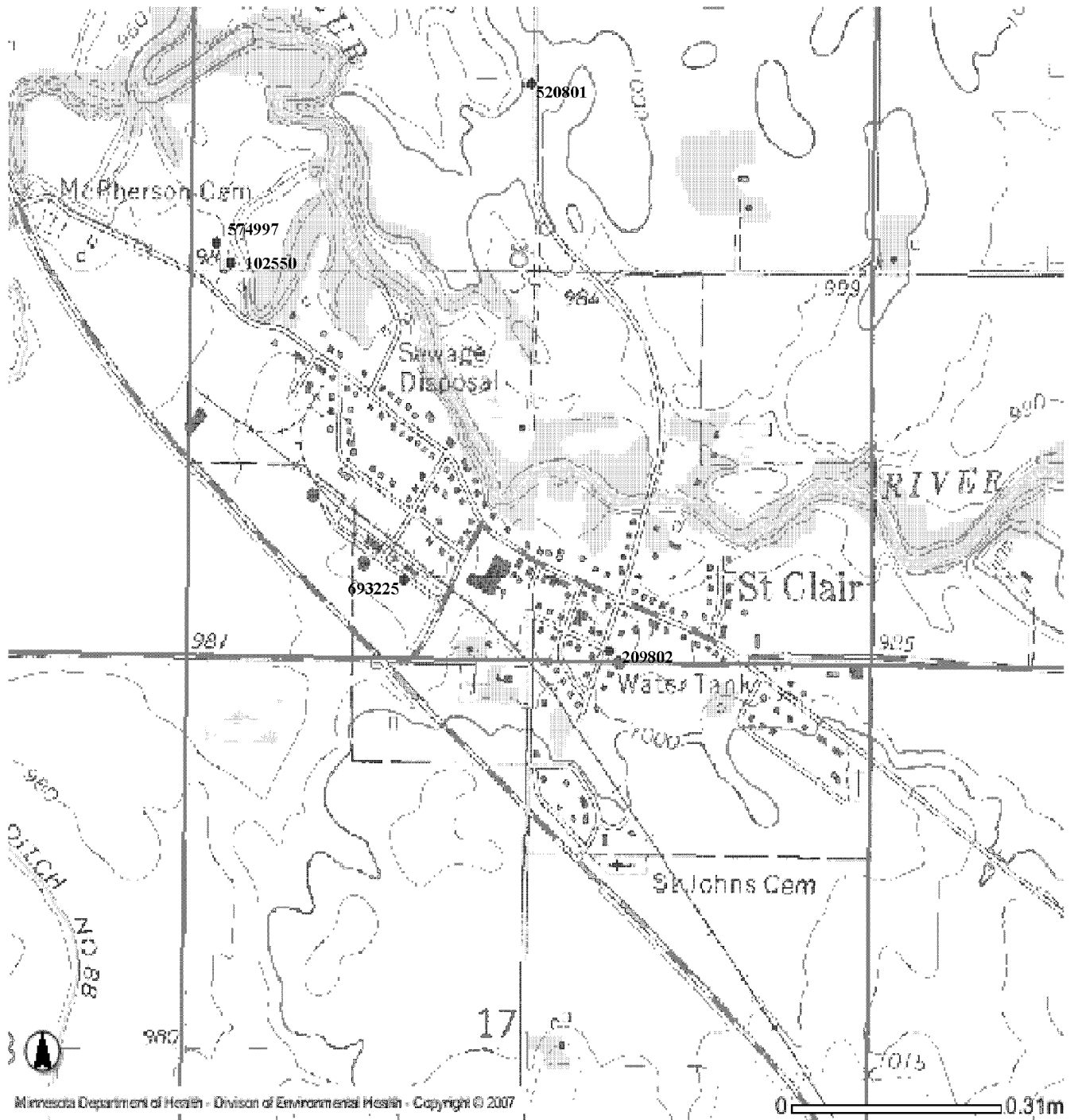
County Well Index Online Report	660931	Printed 6/28/2008 HE-01205-07
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SITE SUMMARY

Site Name: St. Clair
Fire Department: St. Clair Fire Department
PO Box 185
St. Clair, MN 56080
Site Contact: Not provided, page two of questionnaire not completed

Training Location: City of St. Clair
Type of foam used in training: Not specified, use of 3M foam in training assumed
Foam training frequency: Semi-Annually
Foam use per training event: 5 to 10 gallons
Spent foam destination: Storm Sewer
Annual foam use: Not specified
Nearest surface water: LeSueur River located along northeast side of town
Nearest wetland: 1/4 to 1/3 mile outside of town
Karst Area: Training site is located in a covered karst area
Nearest water well: In town
Nearest Wellhead Protection Area: More than 1 mile
SITE RANKING: 23

ST CLAIR CWI Well Map



St Clair What's In My Neighborhood Map

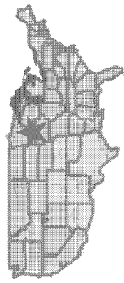
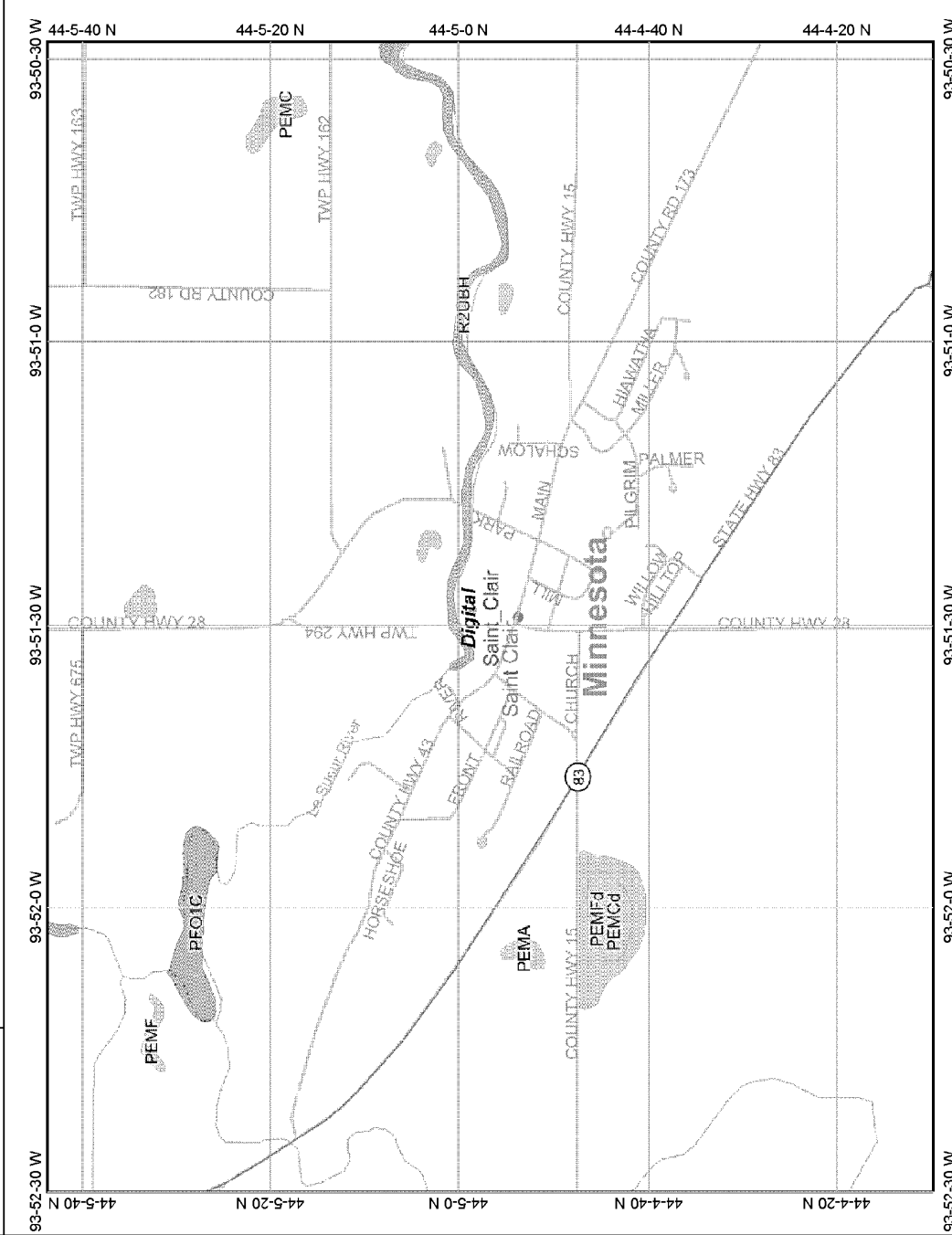


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

St Clair Wetland Map



Legend

- Ohio_wet_scan
 - 0
 - 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:20,276

Map center: 44° 4' 57" N, 93° 51' 29" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

102550

County Blue Earth
 Quad St Clair
 Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/17/1997
 Update Date 06/28/1997
 Received Date

<p>Well Name EBERT, MRS. E. Township Range Dir Section Subsections Elevation 981 ft. 107 25 W 8 BCCCCD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 160 ft. Depth Completed 160 ft. Date Well Completed 05/07/1980 Drilling Method Cable Tool</p>																																														
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>SOIL</td> <td>BLACK SOFT</td> <td>0</td> <td>6</td> </tr> <tr> <td>CLAY</td> <td>YELLOW SOFT</td> <td>6</td> <td>20</td> </tr> <tr> <td>CLAY</td> <td>BLUE SOFT</td> <td>20</td> <td>70</td> </tr> <tr> <td>SANDY CLAY</td> <td>GRAY SOFT</td> <td>70</td> <td>120</td> </tr> <tr> <td>SAND</td> <td>GRAY HARD</td> <td>120</td> <td>160</td> </tr> </tbody> </table>	Color	Hardness	From	To	SOIL	BLACK SOFT	0	6	CLAY	YELLOW SOFT	6	20	CLAY	BLUE SOFT	20	70	SANDY CLAY	GRAY SOFT	70	120	SAND	GRAY HARD	120	160	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>5 in. to 155 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen YES</th> <th>Make</th> <th>JOHNSON</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12</td> <td>2</td> <td>155 ft. and 160 ft.</td> </tr> </tbody> </table> <p>Static Water Level 50 ft. from Land surface Date Measured 05/06/1980</p> <p>PUMPING LEVEL (below land surface) 65 ft. after hrs. pumping 25 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	5 in. to 155 ft.	lbs./ft.		Screen YES	Make	JOHNSON	Type					Diameter	Slot/Gauze	Length	Set Between	0	12	2	155 ft. and 160 ft.
	Color	Hardness	From	To																																											
	SOIL	BLACK SOFT	0	6																																											
	CLAY	YELLOW SOFT	6	20																																											
	CLAY	BLUE SOFT	20	70																																											
	SANDY CLAY	GRAY SOFT	70	120																																											
	SAND	GRAY HARD	120	160																																											
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	Screen YES	Make	JOHNSON	Type																																											
Diameter	Slot/Gauze	Length	Set Between																																												
0	12	2	155 ft. and 160 ft.																																												
<p><i>NO REMARKS</i></p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																														
<p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from neighbor</p> <p>System UTM - Nad83, Zone15, Meters X: 430569 Y: 4881935</p>	<p>Nearest Known Source of Contamination 70 feet E direction Septic tank/drain field_type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/09/1980 Manufacturer's name GOULDS Model number 10EJ HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity 10 g.p.m Type Submersible Material Galvanized</p>																																														
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Denn Well Co. 07120 DENN, L. License Business Name Lic. Or Reg. No. Name of Driller</p>																																														
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">102550</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/28/2008 HE-01205-07</p>																																														

Minnesota Unique Well No.

209802

County Blue Earth
 Quad St Clair
 Quad ID 55D

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 06/17/1997
 Update Date 02/16/2007
 Received Date

<p>Well Name ST-CLAIR OLD 1 Township Range Dir Section Subsections Elevation 985 ft. 107 25 W 8 DCCDDDD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>		<p>Well Depth 320 ft. Depth Completed 320 ft. Date Well Completed 00/00/1913</p>	
<p>Drilling Method Cable Tool</p>		<p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>	
<p>Use Abandoned Status Unknown</p>		<p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.</p>	
<p>Casing Diameter 8 in. to 243 ft. Weight lbs./ft.</p>		<p>Hole Diameter</p>	
<p>Open Hole from 243 ft. to 320 ft.</p>			
<p>Screen NO Make Type</p>			
<p>Diameter Slot/Gauze Length Set Between</p>			
<p>Static Water Level 25 ft. from Land surface Date Measured 1913</p>			
<p>PUMPING LEVEL (below land surface) 43 ft. after hrs. pumping 100 g.p.m.</p>			
<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>			
<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 00/00/1913 Manufacturer's name Model number ___ HP 15 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Turbine Material</p>			
<p>Well Address ST CLAIR MN 56080</p>		<p>Color Hardness From To 0 243 243 320</p>	
<p>Geological Material DRIFT LIMESTONE</p>			
<p>REMARKS WELL LOCATED INSIDE FILTER PLANT BLDG. "SEALED" PRIOR TO WELL CODE.</p>			
<p>Located Minnesota Department of Health</p>		<p>Method Digitization (Screen) - Map (1:12,000)</p>	
<p>Unique Number Verification Information</p>		<p>Date 02/15/2007</p>	
<p>System UTM - Nad83, Zone 15, Meters</p>		<p>X: 431454 Y: 4881142</p>	

Minnesota Unique Well No.

520801

County Blue Earth
 Quad St Clair
 Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
 Update Date 07/22/1997
 Received Date

Well Name DIETEMAN, LAFELLE Township Range Dir Section Subsections Elevation 1002 ft. 107 25 W 8 BDAAAA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 200 ft. Depth Completed 200 ft. Date Well Completed 08/05/1993	
Well Address ST CLAIR MN 56080					Drilling Method Non-specified Rotary	
Geological Material DRIFT SAND CLAY ROCK & SAND LIME					Drilling Fluid Bentonite Use Domestic	
Color BLUE					Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Hardness 0 150 150 157 157 194 194 200					Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.	
From To 0 150 150 157 157 194 194 200					Casing Diameter 5 in. to 194 ft. Weight lbs./ft. Hole Diameter 8 in. to 194 ft. 5 in. to 200 ft.	
Open Hole from ft. to ft.					Screen YES Make JOHNSON Type stainless steel	
Diameter Slot/Gauze Length Set Between 4.5 25 5.3 194 ft. and 200 ft.					Static Water Level 47 ft. from Land surface Date Measured 08/05/1993	
PUMPING LEVEL (below land surface) 47 ft. after hrs. pumping 65 g.p.m.					Well Head Completion Pitless adapter manufacturer MONITER Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	
NO REMARKS					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: from 0 to 36 ft. 4 bags	
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information Date 06/25/2004 System UTM - Nad83, Zone15, Meters X: 431272 Y: 4882302					Nearest Known Source of Contamination 65 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 194 ft.					Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/05/1993 Manufacturer's name GOULDS Model number HP 0.5 Volts 230 Length of drop Pipe 80 ft. Capacity 203 g.p.m Type Submersible Material	
County Well Index Online Report					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Baer Well Co. 07251 BAER, J. License Business Name Lic. Or Reg. No. Name of Driller	
Printed 6/28/2008 HE-01205-07					520801	

Minnesota Unique Well No.

574997

County Blue Earth
 Quad St Clair
 Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
 Update Date 06/28/1997
 Received Date

Well Name LINDE, DAN				Well Depth 180 ft.		Depth Completed 180 ft.		Date Well Completed 06/24/1996	
Township Range Dir Section Subsections Elevation 981 ft.				Drilling Method Non-specified Rotary					
107 25 W 8 BCCCCBD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Drilling Fluid Other		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
				Use Domestic		From Ft. to Ft.			
				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.					
				Casing Diameter 5 in. to 161 ft.		Weight lbs./ft.		Hole Diameter 9 in. to 161 ft.	
				Open Hole from 161 ft. to 180 ft.					
				Screen NO		Make		Type	
Geological Material				Color		Hardness		From To	
SOIL				BLACK		SOFT		0 2	
CLAY				YELLOW		SOFT		2 22	
CLAY				BLUE		SOFT		22 100	
SANDY CLAY						SOFT		100 120	
GRAVEL						SOFT		120 157	
LIMESTONE				BROWN		HARD		157 180	
				Static Water Level		30 ft. from Land surface Date Measured 06/24/1996			
				PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 80 g.p.m.					
				Well Head Completion Pitless adapter manufacturer MONITOR Model					
				<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade					
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
				Grout Material: Bentonite from 0 to 60 ft. 6 bags					
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)				Nearest Known Source of Contamination 70 feet South West direction Septic tank/drain field type					
Unique Number Verification Tag on well Date 06/25/2004				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
System UTM - Nad83, Zone15, Meters X: 430537 Y: 4881976				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/21/1996					
				Manufacturer's name AEROMOTOR Model number A12B50 HP 0.5 Volts 230					
				Length of drop Pipe 60 ft. Capacity 12 g.p.m. Type Submersible Material Plastic					
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Well Contractor Certification Scarles Well Co. 08258 VOLK, J.					
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group				License Business Name Lic. Or Reg. No. Name of Driller					
Last Strat Prairie Du Chien Group Depth to Bedrock 157 ft.									
County Well Index Online Report				574997		Printed 6/28/2008 HE-01205-07			

Minnesota Unique Well No.

693225

County Blue Earth
 Quad St Clair
 Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 08/03/2004
 Update Date 01/16/2006
 Received Date 01/03/2005

Well Name ST. CLAIR ATHELTTIC FIELD Township Range Dir Section Subsections Elevation 978 ft. 107 25 W 8 CDCABC Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 235 ft.	Depth Completed 235 ft.	Date Well Completed 07/28/2004																																																																																					
Drilling Method Non-specified Rotary				Drilling Fluid Bentonite			Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.																																																																																				
Well Address P.O. BOS 99 ST CLAIR MN 56080				Use Irrigation																																																																																							
Geological Material				Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>SOIL STICKY</td><td>BLACK</td><td>SOFT</td><td>0</td><td>5</td></tr> <tr><td>SANDY CLAY</td><td>YELLOW</td><td>SOFT</td><td>5</td><td>12</td></tr> <tr><td>FINE SAND</td><td>GRAY</td><td>SOFT</td><td>12</td><td>16</td></tr> <tr><td>SANDY CLAY</td><td>BLUE</td><td>SOFT</td><td>16</td><td>75</td></tr> <tr><td>SAND & CLAY</td><td>GRY/TAN</td><td>SOFT</td><td>75</td><td>112</td></tr> <tr><td>FIRM CLAY</td><td>GRAY</td><td></td><td>112</td><td>117</td></tr> <tr><td>SANDY CLAY/MED</td><td>BLUE</td><td>SOFT</td><td>117</td><td>127</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td>SOFT</td><td>127</td><td>161</td></tr> <tr><td>SANDY CLAY</td><td>GRAY</td><td>SOFT</td><td>161</td><td>188</td></tr> <tr><td>LIMEROCK/SHALE</td><td>GRY/GRN</td><td>M.HARD</td><td>188</td><td>192</td></tr> <tr><td>LIMESTONE</td><td>TAN/WHT</td><td>HARD</td><td>192</td><td>197</td></tr> <tr><td>LIMESTONE/SANDSTONE FIRM</td><td>TAN/GRY</td><td></td><td>197</td><td>204</td></tr> <tr><td>LIMESTONE</td><td>TAN/PNK</td><td>HARD</td><td>204</td><td>213</td></tr> <tr><td>LIMESTONE</td><td>TAN/WHT</td><td>MEDIUM</td><td>213</td><td>223</td></tr> <tr><td>LIMESTONE</td><td>RED/TAN</td><td>HARD</td><td>223</td><td>230</td></tr> <tr><td>LIMESTONE & SANDSTONE FIRM</td><td></td><td>HARD</td><td>230</td><td>235</td></tr> </tbody> </table>				Geological Material	Color	Hardness	From	To	SOIL STICKY	BLACK	SOFT	0	5	SANDY CLAY	YELLOW	SOFT	5	12	FINE SAND	GRAY	SOFT	12	16	SANDY CLAY	BLUE	SOFT	16	75	SAND & CLAY	GRY/TAN	SOFT	75	112	FIRM CLAY	GRAY		112	117	SANDY CLAY/MED	BLUE	SOFT	117	127	SANDY CLAY	GRAY	SOFT	127	161	SANDY CLAY	GRAY	SOFT	161	188	LIMEROCK/SHALE	GRY/GRN	M.HARD	188	192	LIMESTONE	TAN/WHT	HARD	192	197	LIMESTONE/SANDSTONE FIRM	TAN/GRY		197	204	LIMESTONE	TAN/PNK	HARD	204	213	LIMESTONE	TAN/WHT	MEDIUM	213	223	LIMESTONE	RED/TAN	HARD	223	230	LIMESTONE & SANDSTONE FIRM		HARD	230	235	Casing Diameter 9 in. to 197 ft. Weight lbs./ft. Hole Diameter 12 in. to 195 ft. 8 in. to 208 ft.		
Geological Material	Color	Hardness	From	To																																																																																							
SOIL STICKY	BLACK	SOFT	0	5																																																																																							
SANDY CLAY	YELLOW	SOFT	5	12																																																																																							
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FIRM CLAY	GRAY		112	117																																																																																							
SANDY CLAY/MED	BLUE	SOFT	117	127																																																																																							
SANDY CLAY	GRAY	SOFT	127	161																																																																																							
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LIMESTONE	RED/TAN	HARD	223	230																																																																																							
LIMESTONE & SANDSTONE FIRM		HARD	230	235																																																																																							
REMARKS GAMMA LOGGED 7-28-2004. LOGGED FOR COUNTY STUDY.				Open Hole from 197 ft. to 235 ft.																																																																																							
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)				Screen NO Make Type																																																																																							
Unique Number Verification Information from owner Date 08/03/2004				Diameter Slot/Gauze Length Set Between																																																																																							
System UTM - Nad83, Zone15, Meters X: 430975 Y: 4881287				Static Water Level 23 ft. from L and surface Date Measured 07/28/2004																																																																																							
System UTM - Nad83, Zone15, Meters X: 430975 Y: 4881287				PUMPING LEVEL (below land surface) 60 ft. after hrs. pumping 600 g.p.m.																																																																																							
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from to 40 ft. 5 bags																																																																																							
Nearest Known Source of Contamination 50 feet S direction Sewer type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				Pump <input type="checkbox"/> Not Installed Date Installed 08/26/2004 Manufacturer's name GRUNDFOS Model number 85-S-100-9-6 IIP 10 Volts 230 Length of drop Pipe 84 ft. Capacity g.p.m. Type Submersible Material Galvanized																																																																																							
Borehole Geophysics Yes First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 192 ft.				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																							
County Well Index Online Report				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																							
Well Contractor Certification Searles Well Co. 08258 KUCK, T. License Business Name Lic. Or Reg. No. Name of Driller				Printed 6/28/2008 HE-01205-07																																																																																							

SITE SUMMARY

Site Name: St. Cloud

Fire Department: St. Cloud Fire Department
101 10th Avenue N.
St. Cloud, MN 56303

Site Contact: Dan Wrobbel, Deputy Fire Chief
320-650-3528
dean.wrobbel@ci.st-cloud.mn.us

Training Location: Open field near Station 2, 700 41st Avenue N.; and, Station 4, 1550 45th Avenue SE (airport station), St. Cloud

Type of foam used in training: AR-AFFF: Chemguard
Training Foam: Chemguard

Foam training frequency: Annually

Foam use per training event: AR-AFFF: 20 gallons
Training Foam: 40 gallons

Spent foam destination: Ground

Annual foam use: AR-AFFF: 20 gallons
Training Foam: 40 gallons

Nearest surface water: Elk River located along south side of airport/45th Avenue training site; unnamed pond less than 1/4 mile northwest of 41st Avenue training site.

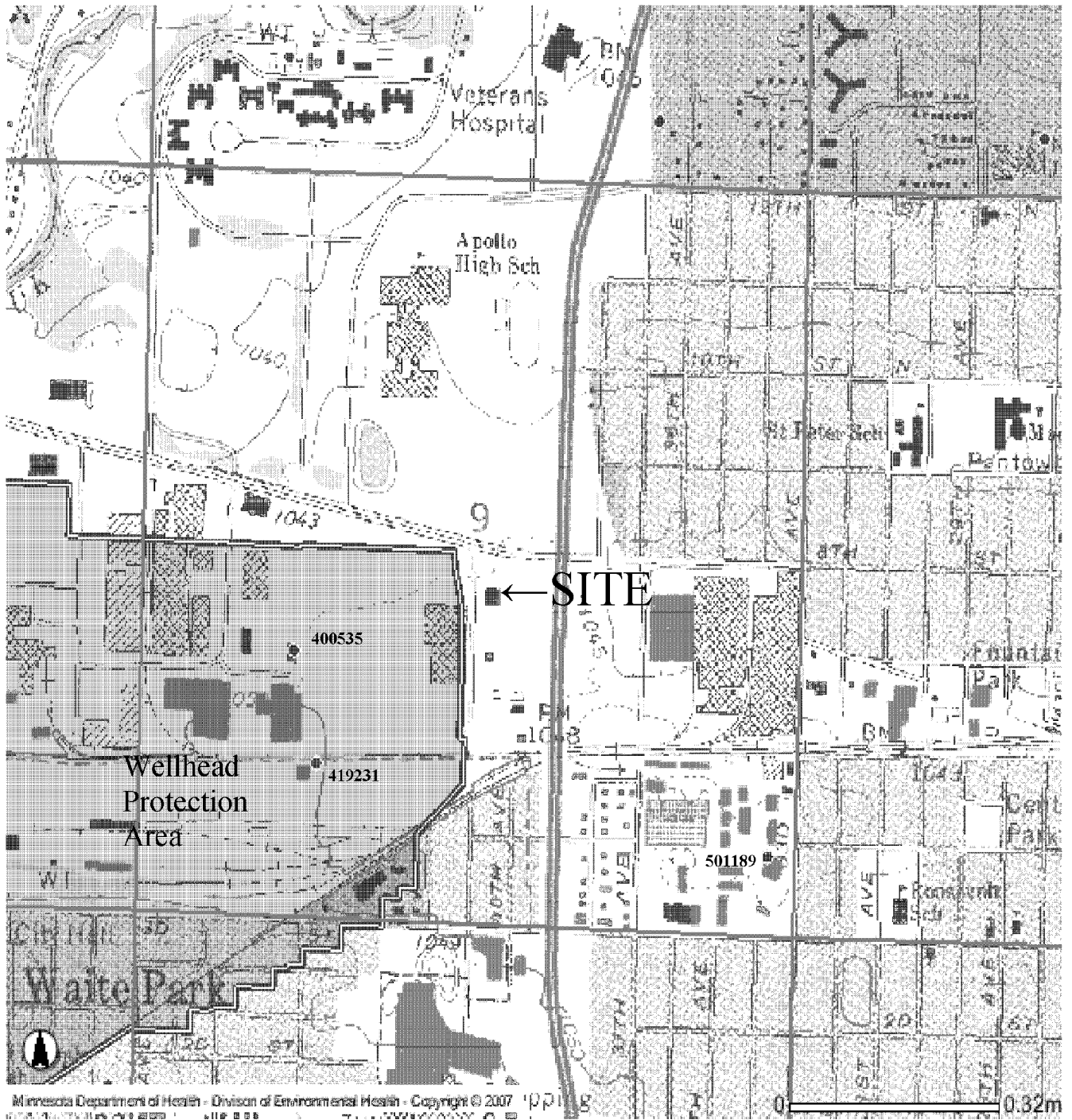
Nearest wetland: On and adjacent to airport/45th Avenue site; 1/2 to 1 mile south of 41st Avenue site.

Nearest water well: Approximately 1/4 mile from airport/45th Avenue site; 1/4 to 1/3 mile southwest of 41st Avenue site.

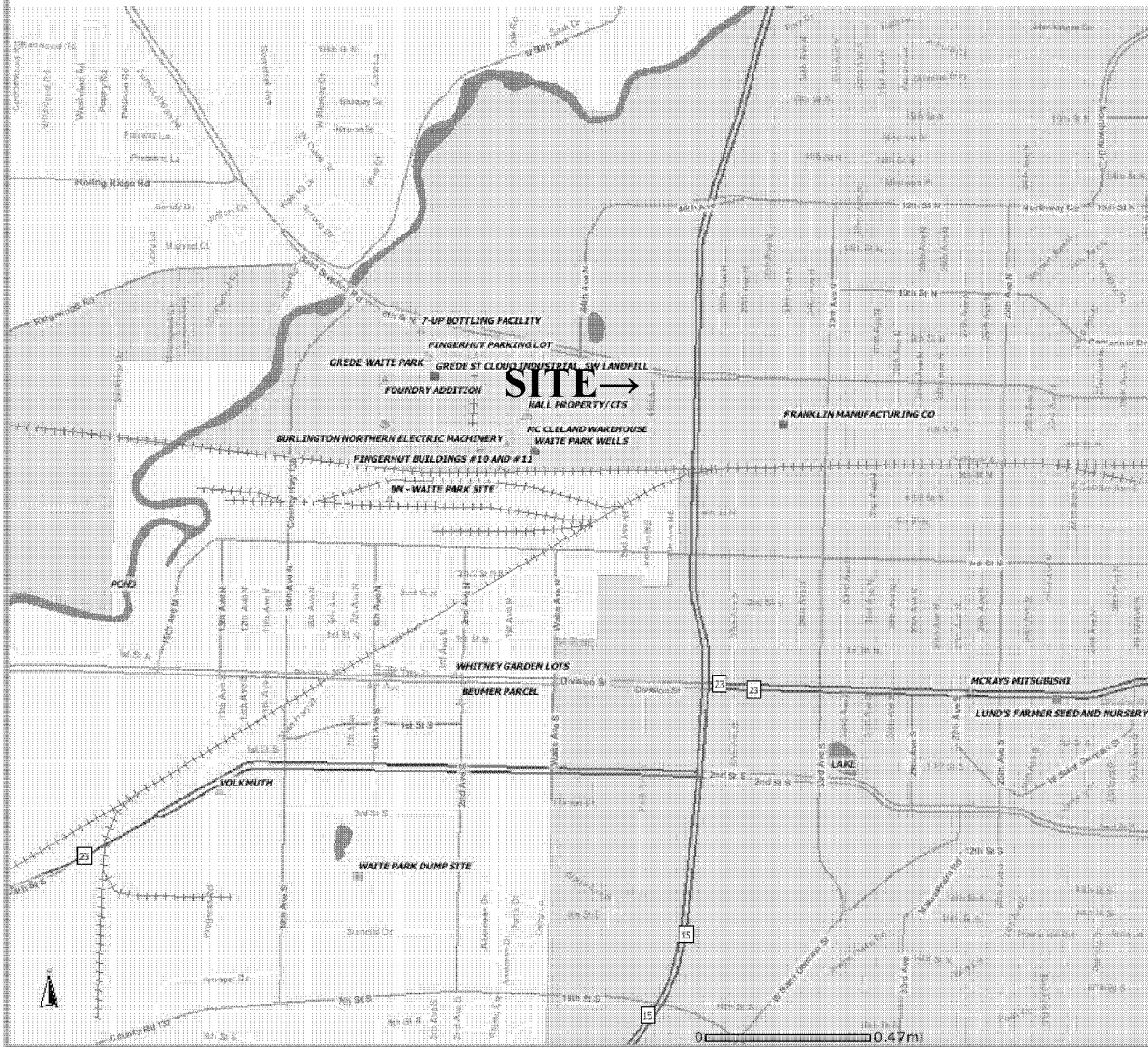
Nearest Wellhead Protection Area: More than 1 mile from airport/45th Avenue site; 41st Avenue site is located in or adjacent to Wellhead Protection Area.

SITE RANKING: 18

ST CLOUD 41st AVE CWI Well Map



St. Cloud 41st Avenue *What's In My Neighborhood*

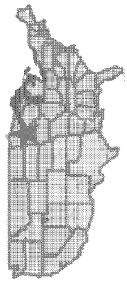
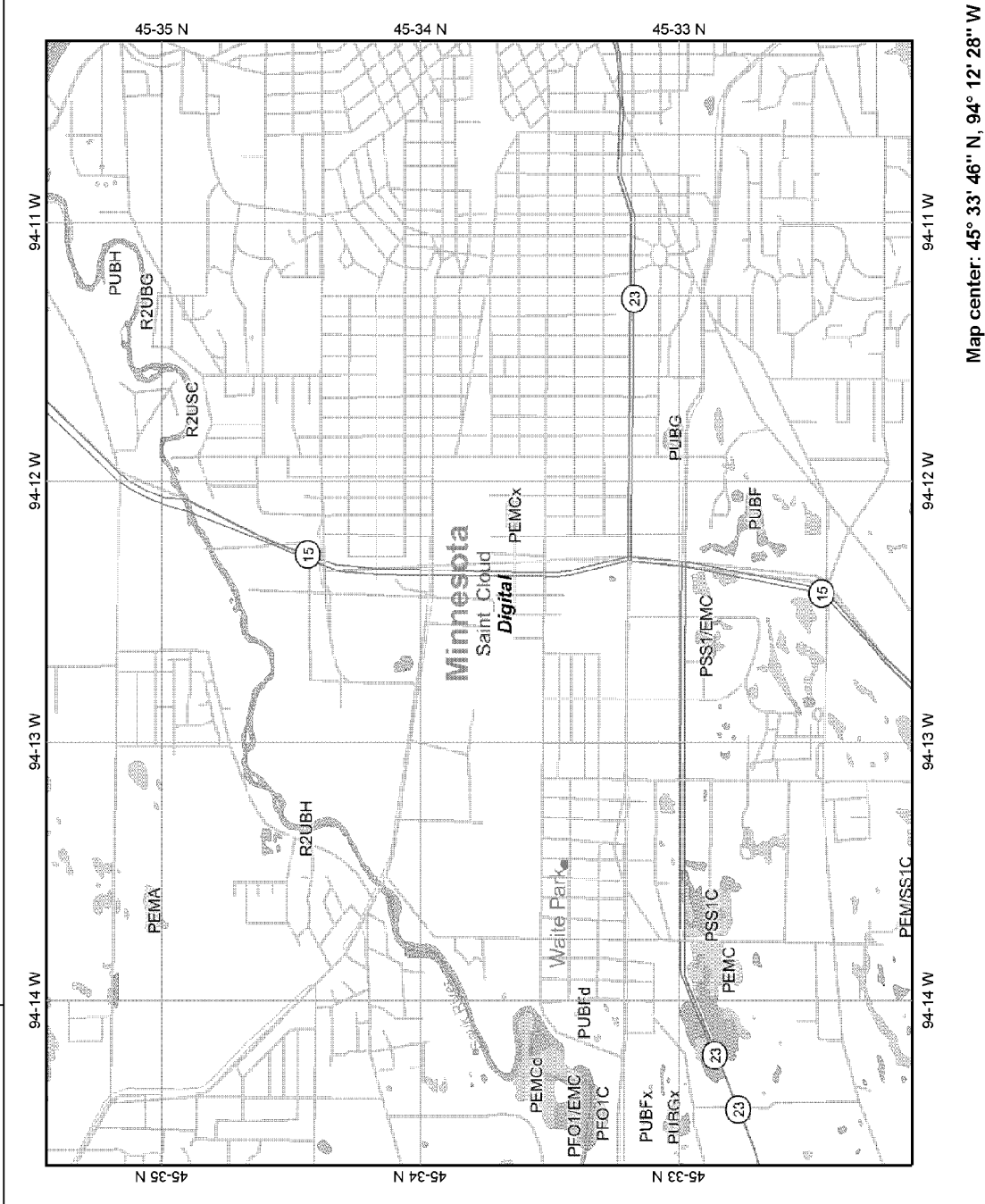


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

St Cloud 41st Av Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:43,306

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

400535

County Stearns
 Quad St Cloud
 Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
 Update Date 07/14/1993
 Received Date

Well Name SCHMIDT LABS INC Township Range Dir Section Subsections Elevation 1044 ft. 124 28 W 9 CBDAAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 55 ft.	Depth Completed 55 ft.	Date Well Completed 06/13/1986
		Drilling Method Cable Tool		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Industrial		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter 4 in. to 51 ft.	Weight lbs/ft.	Hole Diameter 4 in. to 55 ft.
		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
Geological Material SAND HARDPAN SAND, GRAVEL & WATER		Color BROWN GRAY	Hardness HARD HARD	From To 0 21 21 51 51 55
Well Address 4605 RUSAN ST MN		Static Water Level 8 ft. from Land surface Date Measured 06/13/1986		
		PUMPING LEVEL (below land surface) 20 ft. after hrs. pumping 25 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS ACROSS FROM VA HOSPITAL--INDUSTRIAL PARK OFF CTY 4 INSIDE BUILDING.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information from owner Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 06/17/1986 Manufacturer's name JACUZZI Model number B5S4108-S2 _ HP 0.5 Volts 230 Length of drop Pipe 20 ft. Capacity 10 g.p.m Type Submersible Material Fiberglass		
System UTM - Nad83, Zone15, Meters X: 405255 Y: 5046324		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Donabauer Well Co. 73061 DONABAUER, Q. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand & larger		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		400535		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

419231

County Stearns
 Quad St Cloud
 Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/08/1992
 Update Date 05/06/2005
 Received Date

Well Name OLD WAITE PARK WELL 4 Township Range Dir Section Subsections Elevation 1051 ft. 124 28 W 9 CDBBCA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 45 ft. Depth Completed 44 ft. Date Well Completed 10/30/1986
		Drilling Method Non-specified Rotary
Well Address WAITE PARK MN 56387 Geological Material DIRT & ROCKS Color BLACK Hardness SOFT From 0 To 1 SANDY CLAY YELLOW SOFT 1 5 CLAY GRAY/YEL MED-HRD 5 8 SAND-FINE YELLOW SFT-MED 8 16 SAND-FINE BLUE SFT-MED 16 21 SAND-COARSE BLUE MEDIUM 21 29 GRAVEL-COARSE MEDIUM 29 39 SANDY CLAY GRAY 39 42 REGOLITH & BROKEN ROCK 42 45		Drilling Fluid --
		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Abandoned Status Sealed
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.
		Casing Diameter 12 in. to 32 ft. Weight lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
		Diameter 12 Slot/Gauze 120 Length 12 Set Between 32 ft. and 44 ft.
		Static Water Level 15 ft. from Land surface Date Measured 10/30/1986
		PUMPING LEVEL (below land surface) 29.8 ft. after 12 hrs. pumping 246 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL SEALED 02-05-1990 BY 27010 Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 405310 Y: 5046081		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 26 ft.
		Nearest Known Source of Contamination 20 feet North East direction Other type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Cretaceous Regolith Aquifer Quat. Water Table Aquifer Last Strat Cretaceous Regolith Depth to Bedrock 42 ft.		Well Contractor Certification Ervin Well Co. 65252 ERVIN, D. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		419231
		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.

501189

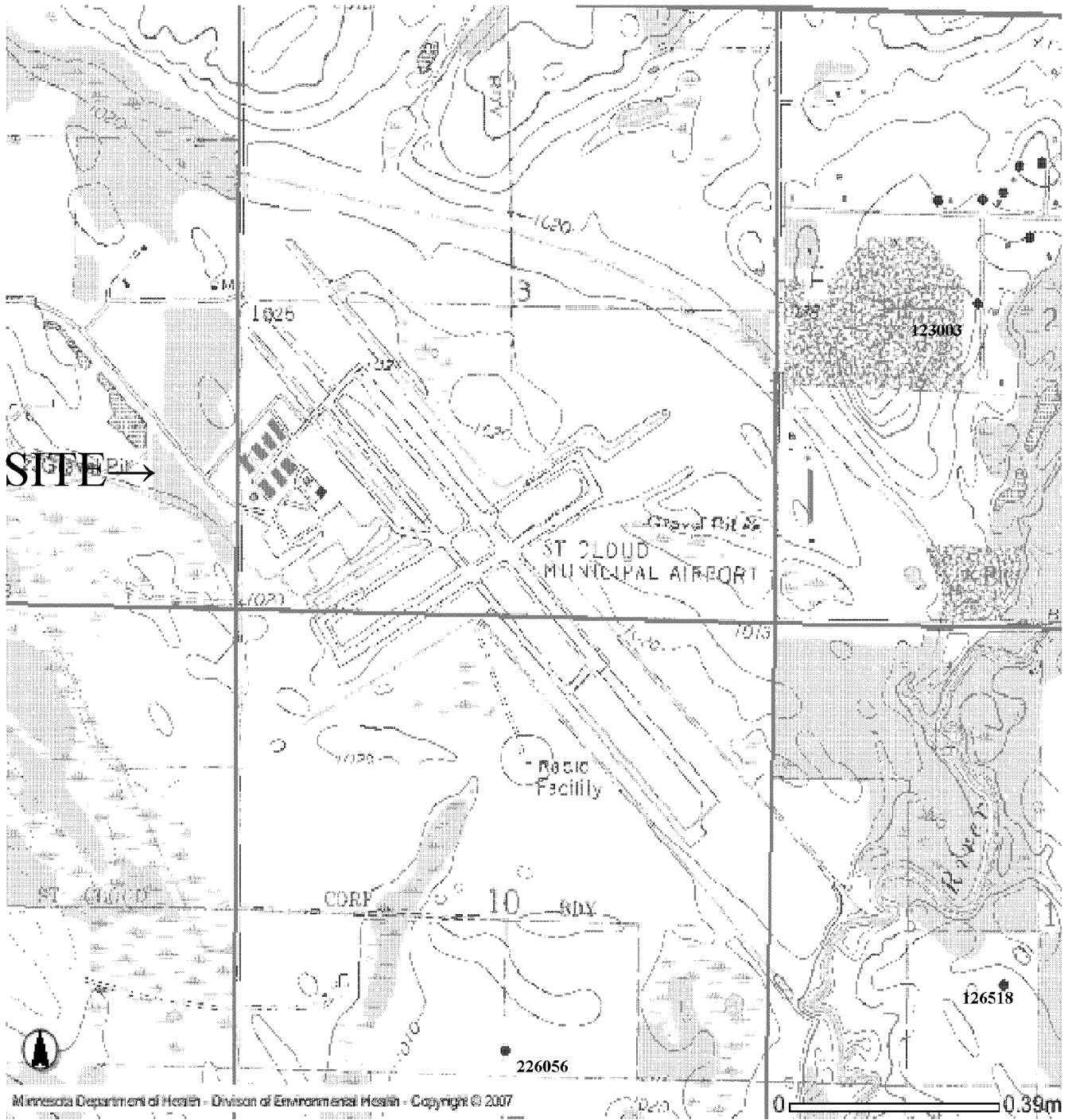
County Stearns
 Quad St Cloud
 Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

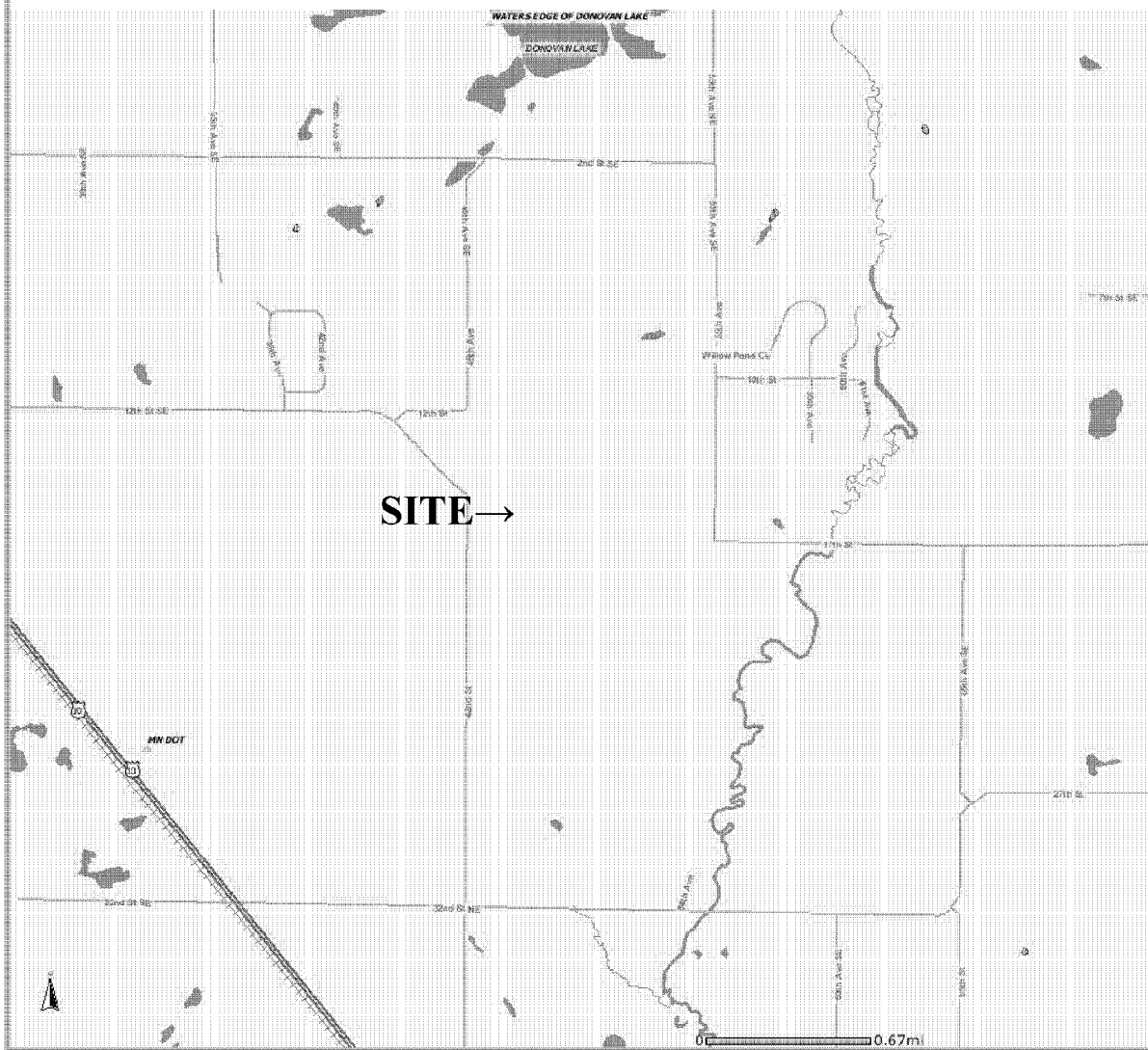
Entry Date 06/24/1991
 Update Date 07/14/1993
 Received Date

Well Name OCTAGON BUILDING Township Range Dir Section Subsections Elevation 124 28 W 9 DDDABD Elevation Method 1044 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 69 ft.	Depth Completed 69 ft.	Date Well Completed 07/07/1989
		Drilling Method Non-specified Rotary		
		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Irrigation		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter 4 in. to 65 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES	Make JOINSON	Type stainless steel
		Diameter 4	Slot/Gauze 20	Length 4
		Set Between 65 ft. and 69 ft.		
		Static Water Level 18 ft. from Land surface Date Measured 07/07/1989		
		PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 50 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Grout Material: Cuttings from 0 to ft. 0		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address verification Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/13/1989 Manufacturer's name A.Y. MCDONALD Model number 21075P3 HP 0.75 Volts 230 Length of drop Pipe 42 ft. Capacity 16 g.p.m. Type Submersible Material Galvanized		
System UTM - Nad83, Zone15, Meters X: 406418 Y: 5045879		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification G & M Drilling 73542 MAJERUS, S. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand-brown		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		501189		Printed 6/28/2008 HE-01205-07

ST CLOUD 45th AVE CWI Well Map



St. Cloud 45th Avenue *What's In My Neighborhood*



SITE →

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Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

123003

County Sherburne
 Quad Cable
 Quad ID 156D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
 Update Date 04/08/2008
 Received Date

<p>Well Name GAINIE, RON Township Range Dir Section Subsections Elevation 1039 ft. 35 30 W 2 BDCDDA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 52 ft. Depth Completed 52 ft. Date Well Completed 02/14/1975 Drilling Method Cable Tool</p>
<p>Geological Material Color Hardness From To SANDY CLAY BROWN SOFT 0 25 GRAVEL BROWN SOFT 25 48 SAND 20 SLOT BROWN SOFT 48 52</p>	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Domestic</p>
	<p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1.25 ft.</p>
	<p>Casing Diameter 4 in. to 48 ft. Weight lbs/ft. Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen YES Make JOHNSON Type stainless steel</p>
	<p>Diameter 3 Slot/Gauze 20 Length 4.7 Set Between 48 ft. and 52 ft.</p>
	<p>Static Water Level 18 ft. from Land surface Date Measured 02/14/1975</p>
	<p>PUMPING LEVEL (below land surface) 18 ft. after 1 hrs. pumping 20 g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Name Date N/A on mailbox</p> <p>System UTM - Nad83, Zone15, Meters X: 418794 Y: 5044810</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.</p>	<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 03/31/1975 Manufacturer's name <u>DEMPSTER</u> Model number <u>DMS052</u> HP <u>0.5</u> Volts <u>230</u> Length of drop Pipe <u>23</u> ft. Capacity <u>11</u> g.p.m. Type <u>Submersible</u> Material <u>Galvanized</u></p>
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>County Well Index Online Report</p>	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Well Contractor Certification <u>Traut Well</u> <u>73157</u> <u>STOTKO, J.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>
<p>123003</p>	
<p>Printed 6/28/2008 HE-01205-07</p>	

Minnesota Unique Well No.

126518

County Sherburne
 Quad Cable
 Quad ID 156D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/17/1988
 Update Date 04/08/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name PROM, LORN (PROM DAIRY)		Well Depth 1013 ft.	Depth Completed 111 ft.	Date Well Completed 06/21/1977
Township Range Dir Section Subsections Elevation 35 30 W 11 CAADBC Elevation Method		7.5 minute topographic map (-/+ 5 feet)		
Drilling Method Cable Tool				
Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Irrigation				
Casing Type Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.				
Casing Diameter 12 in. to 82 ft.		Weight lbs./ft.	Hole Diameter	
Open Hole from ft. to ft.				
Screen YES Make JOHNSON Type stainless steel				
Geological Material	Color	Hardness	From	To
SAND, ROCK			0	30
SAND, GRAVEL			30	60
HARDPAN			60	80
WATER VEIN			80	111
Static Water Level 16 ft. from Land surface Date Measured 06/21/1977				
PUMPING LEVEL (below land surface) 80 ft. after 1 hrs. pumping 850 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
<i>NO REMARKS</i>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Date N/A		
Verification Information from owner				
System UTM - Nad83, Zone15, Meters		X: 418872 Y: 5043014		
Nearest Known Source of Contamination _feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input checked="" type="checkbox"/> Not Installed Date Installed				
Manufacturer's name <u>WESTERN LAND ROLLER</u> Model				
number __ HP <u>0</u> Volts				
Length of drop Pipe <u>80</u> ft. Capacity <u> </u> g.p.m				
Type <u>Turbine</u> Material <u>Steel</u> (black or low carbon)				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
<u>Mc Alpine Brothers</u> <u>86270</u> <u>MCALPINE.</u> <u>L.</u>				
First Bedrock		License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		

County Well Index Online Report	126518	Printed 6/28/2008 HE-01205-07
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Minnesota Unique Well No.

226056

County Sherburne
 Quad Cable
 Quad ID 156D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/01/1990
 Update Date 04/08/2008
 Received Date

Well Name HIBBARD, KEITH 1 Township Range Dir Section Subsections Elevation 1015 ft. 35 30 W 10 DBCCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 85 ft.	Depth Completed 85 ft.	Date Well Completed 11/15/1979
Drilling Method Cable Tool					Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Irrigation					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
Casing Diameter 12 in. to 60 ft. Weight lbs./ft. Hole Diameter					Open Hole from ft. to ft.		
Screen YES Make JOHNSON Type stainless steel					Diameter 12 Slot/Gauze 20 Length 20 Set Between 60 ft. and 80 ft.		
Geological Material BROWN SAND BROWN SOFT 0 3 ROCKS DK. BRN HARD 3 20 HARDPAN BLACK HARD 20 65 WATER VEIN GRAY SOFT 65 85					Static Water Level 25 ft. from Land surface Date Measured 11/15/1979		
PUMPING LEVEL (below land surface) ft. after hrs. pumping 300 g.p.m.					Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS NOT USING THIS WELL.					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information Date N/A					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
System UTM - Nad83, Zone15, Meters X: 417374 Y: 5042841					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Aquifer Quat. Buried Artes. Aquifer					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Last Strat Sand-gray Depth to Bedrock ft.					Well Contractor Certification Mc Alpine Brothers 86270 License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report					226056		Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name: St. Paul

Fire Department: St. Paul Fire Department
100 E. 11th Street
St. Paul, MN 55101

Site Contact: Clarence Hawkins
651-644-9133
Clarence.hawkins@ci.stpaul.mn.us

Training Location: 1683 Energy Park Drive, St. Paul

Type of foam used in training: AFFF: 3M Light Water ATC (historic use)
AR-AFFF: 3M Light Water ATC (historic use)
Class A-B Hi Expansion: Kidde Hi-Ex

Foam training frequency: Approximately every 18 months, when there is a recruit academy

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: AFFF: 15 gallons
AR-AFFF: 15 gallons
Class A-B Hi Ex: 12 ounces
Class A: 2 gallons
Other: 5 gallons (Ansulite 3%)

Nearest surface water: Unidentified pond, 1/4 to 1/2 mile southwest

Nearest wetland: 1/2 to 1/2 mile southwest

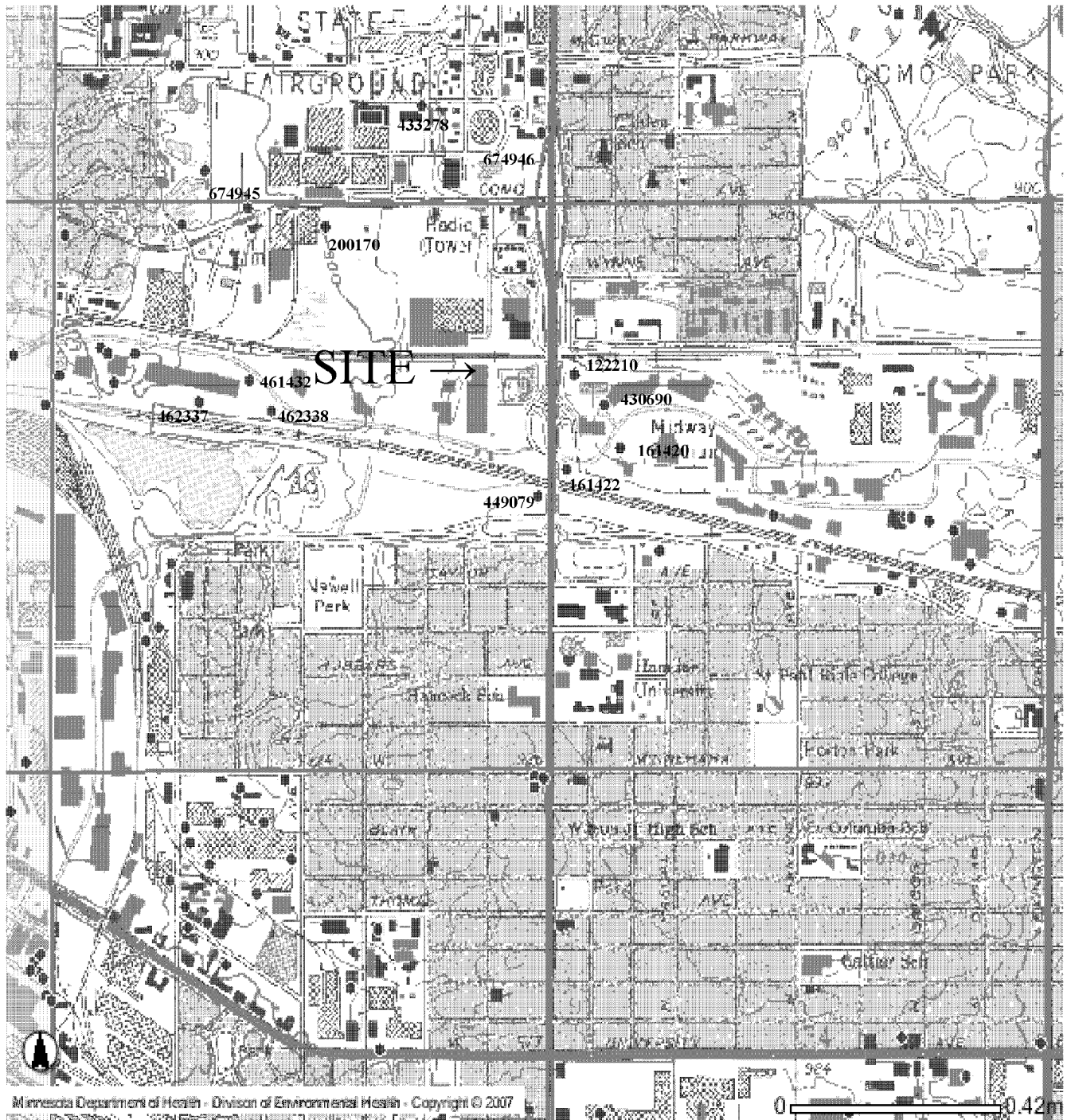
Karst Area: Training site appears to be located in an active karst area

Nearest water well: Less than 1/8 mile east

Nearest Wellhead Protection Area: More than 1 mile

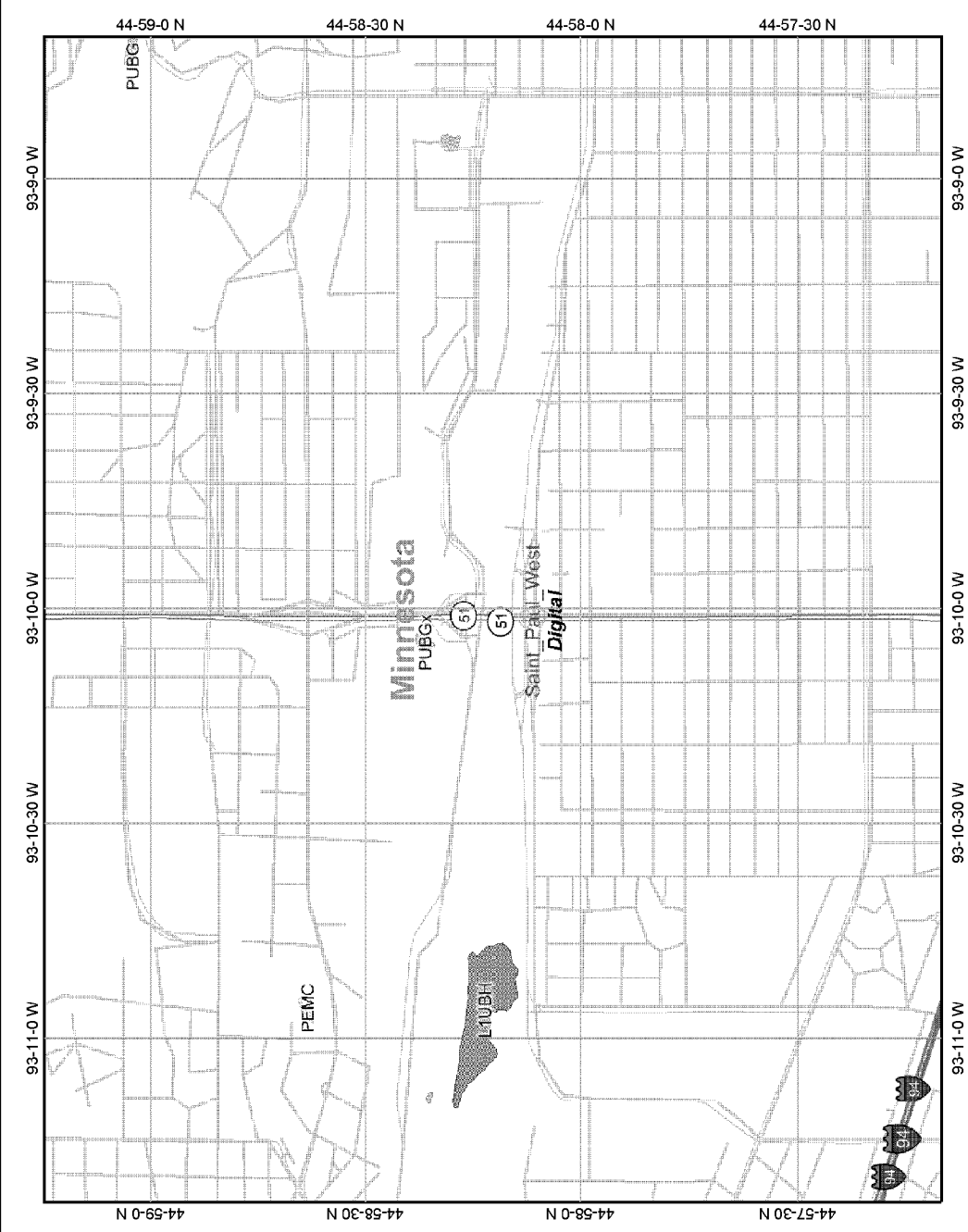
SITE RANKING: 22

ST PAUL CWI Well Map

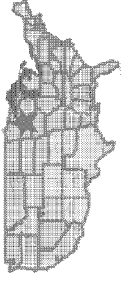


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St Paul



Map center: 44° 58' 12" N, 93° 10' 1" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:27,038

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

County Well Index Online Report	161420	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

161422

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
 Update Date 12/28/2007
 Received Date

Well Name ST. PAUL PORT AUTH. 1 Township Range Dir Section Subsections Elevation 925 ft. 29 23 W 27 BCCCCA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 548 ft.	Depth Completed 548 ft.	Date Well Completed 06/01/1982
Well Address SNELLING AV ST PAUL MN		Drilling Method Cable Tool		
Geological Material FILL WATER SAND CLAY STONE & ROCKS SHALE LIMEROCK ST. PETER SANDROCK SHAKOPEE JORDAN SANDROCK SHALE		Color BLUE	Hardness HARD	From To 0 20 20 74 74 76 76 85 85 132 132 172 172 336 336 459 459 543 543 548
REMARKS M.G.S. NO. 1790. USED 83 CUBIC YARDS OF NEAT CEMENT IN GROUTING.		Drilling Fluid --		
Located Minnesota Geological Survey		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Unique Number Verification Information from owner		Use Air Conditioning		
System UTM - Nad83, Zone15, Meters		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Casing Diameter 30 in. to 135 ft. 118 lbs/ft. 30 in. to 178 ft. 24 in. to 178 ft. 94 lbs/ft. 24 in. to 353 ft.		
Date N/A		Open Hole from 353 ft. to 548 ft.		
X: 486883 Y: 4979690		Screen NO Make Type		
First Bedrock Decorah		Diameter Slot/Gauze Length Set Between		
Last Strat St.Lawrence		Static Water Level 169 ft. from Land surface Date Measured 06/01/1982		
Aquifer Prairie Du Chien-Jordan		PUMPING LEVEL (below land surface) 231 ft. after 50 hrs. pumping 3500 g.p.m.		
Depth to Bedrock 85 ft.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
County Well Index Online Report		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 178 ft. Grout Material: Neat Cement from to 353 ft.		
Printed 6/29/2008 HE-01205-07		Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
161422		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m Type Material		
2222.1661		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
STATE_02822618		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
08/14/1991		Well Contractor Certification Bergerson-Caswell 27058 License Business Name Lic. Or Reg. No. Name of Driller		

Minnesota Unique Well No.

200170

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
 Update Date 08/23/1991
 Received Date

<p>Well Name CANADIAN NATIONAL RAILWA</p> <p>Township Range Dir Section Subsections Elevation 905 ft. 7.5 minute topographic map (+/- 5 feet)</p> <p>29 23 W 28 ABBD Elevation Method</p>	<p>Well Depth 33 ft. Depth Completed 33 ft. Date Well Completed 03/00/1939</p> <p>Drilling Method</p>																																						
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>SANDY CLAY</td> <td></td> <td></td> <td>0</td> <td>2</td> </tr> <tr> <td>COARSE GRAVEL, ROCKS, CLAY</td> <td></td> <td></td> <td>2</td> <td>17</td> </tr> <tr> <td>SANDY CLAY</td> <td></td> <td></td> <td>17</td> <td>18</td> </tr> <tr> <td>SAND, GRAVEL AND CLAY STREAKS</td> <td></td> <td></td> <td>18</td> <td>32</td> </tr> <tr> <td>WATER BEARING SAND CLAY AND GRAVE</td> <td></td> <td></td> <td>32</td> <td>33</td> </tr> </tbody> </table>		Color	Hardness	From	To	SANDY CLAY			0	2	COARSE GRAVEL, ROCKS, CLAY			2	17	SANDY CLAY			17	18	SAND, GRAVEL AND CLAY STREAKS			18	32	WATER BEARING SAND CLAY AND GRAVE			32	33	<p>Drilling Fluid</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Test well</p> <p>Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade</p> <p><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between				
		Color	Hardness	From	To																																		
	SANDY CLAY			0	2																																		
	COARSE GRAVEL, ROCKS, CLAY			2	17																																		
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	SAND, GRAVEL AND CLAY STREAKS			18	32																																		
	WATER BEARING SAND CLAY AND GRAVE			32	33																																		
	Diameter	Slot/Gauze	Length	Set Between																																			
	<p>REMARKS CASING: 016 TO 0144;012 TO 0430;010 TO 0439.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 486105 Y: 4980376</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																					
<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																							
<p>Pump <input type="checkbox"/> Not Installed Date Installed</p> <p>Manufacturer's name Model number HP Volts</p> <p>Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																							
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																							
<p>First Bedrock</p> <p>Last Strat Unknown deposit type</p>	<p>Well Contractor Certification</p> <p><u>Keys Well Co.</u> <u>62012</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>																																						
<p>County Well Index Online Report</p>	<p style="text-align: center;">200170</p> <p style="text-align: right;">Printed 6/29/2008 HE-01205-07</p>																																						

Minnesota Unique Well No.

430690

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103F

Entry Date 09/07/1989
 Update Date 02/22/2008
 Received Date

<p>Well Name ENERGY PARK BLK-1 L Township Range Dir Section Subsections Elevation 908 ft. 29 23 W 27 BDBDDB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 220 ft. Depth Completed 220 ft. Date Well Completed 03/13/1987</p> <p>Drilling Method Non-specified Rotary</p>																																																											
<p>Well Address 1900 AMHOIST TOWER ST PAUL MN 55102</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>COARSE SAND & GRAVEL</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>8</td> </tr> <tr> <td>BLACK CLAY, SAND & GRAVEL MIX</td> <td>BROWN</td> <td>SOFT</td> <td>8</td> <td>18</td> </tr> <tr> <td>SAND & GRAVEL</td> <td>BROWN</td> <td>SOFT</td> <td>18</td> <td>75</td> </tr> <tr> <td>SHALE</td> <td>BLU/GRY</td> <td>M.SOFT</td> <td>75</td> <td>111</td> </tr> <tr> <td>SHALE & SANDSTONE</td> <td>GRAY</td> <td>MEDIUM</td> <td>111</td> <td>117</td> </tr> <tr> <td>LIMESTONE</td> <td>GRAY</td> <td>HARD</td> <td>117</td> <td>154</td> </tr> <tr> <td>LIMESTONE</td> <td>BLU/GRY</td> <td>MEDIUM</td> <td>154</td> <td>160</td> </tr> <tr> <td>SANDSTONE</td> <td>WHITE</td> <td>SOFT</td> <td>160</td> <td>220</td> </tr> </tbody> </table>		Color	Hardness	From	To	COARSE SAND & GRAVEL	BROWN	SOFT	0	8	BLACK CLAY, SAND & GRAVEL MIX	BROWN	SOFT	8	18	SAND & GRAVEL	BROWN	SOFT	18	75	SHALE	BLU/GRY	M.SOFT	75	111	SHALE & SANDSTONE	GRAY	MEDIUM	111	117	LIMESTONE	GRAY	HARD	117	154	LIMESTONE	BLU/GRY	MEDIUM	154	160	SANDSTONE	WHITE	SOFT	160	220	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Other (specify in remarks)</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.</p> <p>Casing Diameter 4 in. to 171 ft. Weight lbs./ft. Hole Diameter 4 in. to 220 ft.</p> <p>Open Hole from 171 ft. to 220 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Screen NO</th> <th style="width:15%;">Make</th> <th style="width:15%;">Type</th> <th style="width:15%;">Diameter</th> <th style="width:15%;">Slot/Gauze</th> <th style="width:15%;">Length</th> <th style="width:15%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level 135 ft. from Land surface Date Measured 03/29/1987</p> <p>PUMPING LEVEL (below land surface) 139.3 ft. after 5.5 hrs. pumping 25 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
		Color	Hardness	From	To																																																							
	COARSE SAND & GRAVEL	BROWN	SOFT	0	8																																																							
	BLACK CLAY, SAND & GRAVEL MIX	BROWN	SOFT	8	18																																																							
	SAND & GRAVEL	BROWN	SOFT	18	75																																																							
	SHALE	BLU/GRY	M.SOFT	75	111																																																							
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Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																																																						
<p>REMARKS M.G.S. NO. 2594. NEXT TO WELL NO.2 161420.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 487006 Y: 4979873</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from to 171 ft.</p> <p>Nearest Known Source of Contamination ___feet ___direction ___type</p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe ___ft. Capacity ___g.p.m Type Material</p>																																																											
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Traut M.j. Well Co. 71536 MARK/ROB License Business Name Lic. Or Reg. No. Name of Driller</p>	<p>Cuttings Yes</p> <p>First Bedrock Decorah Aquifer St.Peter Last Strat St.Peter Depth to Bedrock 75 ft.</p>																																																										
	<p>County Well Index Online Report 430690 Printed 6/29/2008 IIE-01205-07</p>																																																											

Minnesota Unique Well No.

433278

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/07/1989
 Update Date 12/17/2003
 Received Date

Well Name DEPT. OF NATURAL RE Township Range Dir Section Subsections Elevation 922 ft. 29 23 W 21 DCAD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 393 ft. Depth Completed 393 ft. Date Well Completed 07/14/1988
Well Address ST PAUL MN		Drilling Method -- Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material SAND + GRAVEL CLAY, SAND + GRAVEL SAND + GRAVEL LIMEROCK (PLATTEVILLE) LIMEROCK (PLATTEVILLE) SANDSTONE (ST. PETER) SANDSTONE (ST. PETER) LIMEROCK (SHAKOPEE) SANDSTONE (JORDAN)		Use Other (specify in remarks) Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft. Casing Diameter 12 in. to 129 ft. lbs./ft. 6 in. to 332 ft. lbs./ft. Open Hole from 332 ft. to 393 ft.
Color BROWN BROWN BROWN GRAY GRAY GRAY GRAY GRAY GRAY WHITE	Hardness SOFT SOFT SOFT HARD HARD MEDIUM MEDIUM HARD MEDIUM	From To 0 70 70 95 95 129 129 152 152 158 158 316 316 323 323 392 392 393
REMARKS GAMMA LOGGED 7-12-88. M.G.S. NO. 2704. Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 486416 Y: 4980718		Screen NO Make Type Diameter Slot/Gauze Length Set Between Static Water Level 169 ft. from Land surface Date Measured 07/14/1988 PUMPING LEVEL (below land surface) 171 ft. after hrs. pumping 60 g.p.m. Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Cuttings Yes Borehole Geophysics Yes First Bedrock Platteville Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 129 ft.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name GRUNDFOS Model number SP-16 HP 5 Volts 220 Length of drop Pipe 189 ft. Capacity 60 g.p.m Type Submersible Material
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Keys Well Co. 62012 License Business Name Lic. Or Reg. No. Name of Driller
		433278 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

449079

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
 Update Date 12/13/2007
 Received Date

Well Name A-UG Township Range Dir Section Subsections Elevation 923 ft. 29 23 W 28 DAAAAB Elevation Method topographic map (+/- 5 feet)		Well Depth 63 ft. Depth Completed 60 ft. Date Well Completed 06/21/1988
		Drilling Method Non-specified Rotary
Well Address 950 SNELLING AV ST PAUL MN		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Monitor well
		Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 3 ft.
		Casing Diameter 2 in. to 50 ft. Weight 1.7 lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
Geological Material Color Hardness From To GRAVEL BROWN 0 45 MEDIUM SAND BROWN 45 60 CLAY ROCKY RED/BRN 60 63		Diameter 2 Slot/Gauze 10 Length 10 Set Between 50 ft. and 60 ft.
		Static Water Level 42.9 ft. from Land surface Date Measured 06/21/1988
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS LOCATION: WEST OF SNELLING 75 FT SOUTH OF BN TRACKS 150' Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Date 11/08/2007 Verification Other, note in remarks System UTM - Nad83, Zone15, Meters X: 486792 Y: 4979614		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 60 ft. 12 bags
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Pebbly sand/silt/clay Depth to Bedrock ft.		Well Contractor Certification Renner E.H. Well 71015 PRAUGHT, V. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		449079 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

461432

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
 Update Date 12/13/2007
 Received Date

Well Name MW-1		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		28 ft.	28 ft.	09/12/1990
29	23 W 28 BDABCD	Elevation Method topographic map (+/- 5 feet)		
Well Address		Drilling Method Power Auger		
ENERGY PARK DR ST PAUL MN		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Geological Material		--	From Ft. to Ft.	
SILTY CLAY	BROWN	Use Monitor well		
SILTY SAND	BLACK	Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/>		
GRAY WATER SAND	BLACK	Yes <input type="checkbox"/> No Above/Below 3 ft.		
Hardness	From To	Casing Diameter	Weight	Hole Diameter
	0 5	2 in. to 17.5 ft.	lbs./ft.	8 in. to 27.5 ft.
	5 14	Open Hole from ft. to ft.		
	14 28	Screen YES Make JOHNSON Type stainless steel		
Static Water Level		Diameter	Slot/Gauze	Length Set Between
ft. from Date Measured		2	10	10 17.5 ft. and 27.5 ft.
PUMPING LEVEL (below land surface)		Well Head Completion		
ft. after hrs. pumping g.p.m.		Pitless adapter manufacturer Model		
Well Head Completion		<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
Pitless adapter manufacturer Model		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Grouting Information		Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Grout Material: Neat Cement		from 2 to 15 ft.		
Nearest Known Source of Contamination		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
_feet _direction _type		Pump <input type="checkbox"/> Not Installed Date Installed		
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Manufacturer's name Model number __ HP_ Volts		
Pump <input type="checkbox"/> Not Installed Date Installed		Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
Manufacturer's name Model number __ HP_ Volts		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>		
Length of drop Pipe _ft. Capacity _g.p.m. Type Material		Yes <input type="checkbox"/> No		
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Yes <input type="checkbox"/> No		Well Contractor Certification		
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Dpra M0054 ETI		
Well Contractor Certification		License Business Name Lic. Or Reg. No. Name of Driller		
Dpra M0054 ETI		County Well Index Online Report		
License Business Name Lic. Or Reg. No. Name of Driller		461432		
County Well Index Online Report		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

462337

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
 Update Date 12/13/2007
 Received Date

Well Name MW-2 Township Range Dir Section Subsections Elevation 29 23 W 28 BDBCDB Elevation Method 898 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 28 ft. Depth Completed 28 ft. Date Well Completed 09/13/1990
		Drilling Method Power Auger
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Monitor well
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2.2 ft.
		Casing Diameter 2 in. to 18 ft. Weight lbs./ft. Hole Diameter 8 in. to 28 ft.
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
		Diameter 2 Slot/Gauze 10 Length 10 Set Between 18 ft. and 28 ft.
Well Address ENERGY PARK DR ST PAUL MN		
Geological Material SILTY SAND SILTY SAND MED FINE SAND		Color BLACK BROWN GRAY
		Hardness From 0 to 14 14 to 21 21 to 28
REMARKS LOCATION: OPUS ENERGY PARK DR BLOCK 1 LOTS 3,4,& 5. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Lot Block Date 11/08/2007 System UTM - Nad83, Zone15, Meters X: 485697 Y: 4979881		Static Water Level ft. from Date Measured
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 2 to 15 ft.
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Dpra M0054 ETI License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Sand-gray		Aquifer Quat. Water Table Aquifer Depth to Bedrock ft.
County Well Index Online Report		462337
		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

462338

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
 Update Date 12/13/2007
 Received Date

Well Name MW-3 Township Range Dir Section Subsections Elevation 898 ft. 29 23 W 28 BDACDD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 31 ft. Depth Completed 28 ft. Date Well Completed 09/13/1990
Well Address ENERGY PARK DR ST PAUL MN		Drilling Method Power Auger
Geological Material SILTY SAND SANDY CLAY SILTY SAND PEAT		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Color BROWN Hardness		Use Monitor well
From 0 To 9 9 18 18 28 28 31		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2.7 ft.
Weight lbs./ft. Hole Diameter 8 in. to 31 ft.		Casing Diameter 2 in. to 18 ft.
Open Hole from ft. to ft.		Screen YES Make JOHNSON Type stainless steel
Diameter 2 Slot/Gauze 10 Length 10 Set Between 18 ft. and 28 ft.		Static Water Level ft. from Date Measured
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS LOCATION: OPUS - ENERGY PARK DR - NOVA BLOCK 1 LOTS 3,4 & 5		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 2 to 15 ft.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type
Unique Number Verification Lot Block Date 11/08/2007		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
System UTM - Nad83, Zone15, Meters X: 485931 Y: 4979855		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
First Bedrock Aquifer Quat. Water Table Aquifer Last Strat Peat Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
County Well Index Online Report		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
Printed 6/29/2008 HE-01205-07		Well Contractor Certification Dpra M0054 ETI License Business Name Lic. Or Reg. No. Name of Driller

Minnesota Unique Well No.

674945

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 10/23/2002
 Update Date 12/10/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name MN FAIRGROUNDS MW-9		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		14 ft.	14 ft.	07/24/2002
29	23 W 28 BAABBB	Elevation Method topographic map (+/- 5 feet)		
		Drilling Method Auger (non-specified)		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		--	From Ft. to Ft.	
		Use Monitor well		
		Casing Type Plastic	Joint No Information	Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
		2 in. to 4 ft.	0.69 lbs./ft.	8.3 in. to 14 ft.
Well Address		Open Hole from ft. to ft.		
CANFIELD & COMO LM		Screen YES Make TIMCO Type		
ST PAUL MN		Diameter	Slot/Gauze	Length Set Between
		2	10	10 4 ft. and 14 ft.
Geological Material		Static Water Level		
Color	Hardness	8 ft. from Land surface Date Measured 07/24/2002		
From	To	PUMPING LEVEL (below land surface)		
FINE SAND GRAVEL	BLK/BRN	ft. after hrs. pumping g.p.m.		
FINE SAND GRAVEL	BROWN	Well Head Completion		
WET FINE SAND GRAVEL	BROWN	Pitless adapter manufacturer Model		
FINE SAND GRAVEL	BROWN	<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Grout Material: Neat Cement from 0 to 3 ft. 3 bags		
Method Digitization (Screen) - Map (1:24,000)		Grout Material: Bentonite from 3 to 3.5 ft. 1 bag		
Unique Number		Nearest Known Source of Contamination		
Verification Tag on well		_feet _direction _type		
Date 10/04/2007		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters		Pump <input type="checkbox"/> Not Installed Date Installed		
X: 485854 Y: 4980429		Manufacturer's name Model number IIP Volts		
		Length of drop Pipe ft. Capacity g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock		Well Contractor Certification		
Aquifer Quaternary Undiff.		Thein Well Co. 34625 HILBRANDS, B.		
Last Strat Sand & larger-brown		License Business Name Lic. Or Reg. No. Name of Driller		
Depth to Bedrock ft.				
County Well Index Online Report		674945		Printed 6/29/2008 IIE-01205-07

Minnesota Unique Well No.

674946

County Ramsey
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 10/23/2002
 Update Date 12/10/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name MN FAIRGROUNDS MW-10		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		50 ft.	50 ft.	07/27/2002
29	23 W 21 DDDAAB	Elevation Method topographic map (+/- 5 feet)		
Drilling Method Auger (non-specified)				
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
--		From Ft. to Ft.		
Use Monitor well				
Casing Type Plastic		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
No Above/Below ft.				
Casing Diameter		Weight	Hole Diameter	
2 in. to 40 ft.		0.69 lbs./ft.	8.3 in. to 50 ft.	
Open Hole from ft. to ft.				
Screen YES Make TIMCO Type				
Diameter	Slot/Gauze	Length	Set Between	
2	10	10	40 ft. and 50 ft.	
Static Water Level				
44 ft. from Land surface Date Measured 07/27/2002				
PUMPING LEVEL (below land surface)				
ft. after hrs. pumping g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Grout Material: Neat Cement		from 0 to 35 ft.	6 bags	
Grout Material: Bentonite		from 35 to 37 ft.	1 bags	
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name		Model number	IIP	Volts
Length of drop Pipe		_ft. Capacity	_g.p.m	Type Material
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Well Contractor Certification				
Thein Well Co.		34625	HILBRANDS, BR	
License Business Name		Lic. Or Reg. No.	Name of Driller	
First Bedrock		Aquifer Quaternary Undiff.		
Last Strat Sand & larger-brown		Depth to Bedrock ft.		
County Well Index Online Report		674946		Printed 6/29/2008 IIE-01205-07

SITE SUMMARY

Site Name: Tyler

Fire Department: Tyler Fire Department
Tyler, MN 56178

Site Contact: Richard Borresen, Fire Chief
507-247-5556
ridiane@frontiernet.net

Training Location: Corner of Bradley and Applebee, Tyler

Type of foam used in training: AR-AFFF: Angus (use in training not specified)
Class A: Anul Silv-ex (use in training not specified)

Foam training frequency: Quarterly

Foam use per training event: Less than 5 gallons

Spent foam destination: 80% to ground, 20% to storm sewer

Annual foam use: AR-AFFF: not specified
Class A: not specified

Nearest surface water: County ditch, 1/2 to 1 mile northeast

Nearest wetland: 1/4 to 1/2 mile north

Nearest water well: Approximately 1/2 mile north and south

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

Tyler What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

212836

County Lincoln
 Quad Dead Coon Lake
 Quad ID 83D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 08/12/1992
 Received Date

Minnesota Statutes Chapter 1031

Well Name BLOMGREN, M.L.					Well Depth	Depth Completed	Date Well Completed			
Township Range Dir Section Subsections Elevation					114 ft.	114 ft.	00/00/1957			
109 44 W 2 BBCCA Elevation Method					7.5 minute topographic map (+/- 5 feet)					
					Drilling Method Cable Tool					
Well Address TYLER MN Geological Material Color Hardness From To CLAY YELLOW 0 30 CLAY BLUE 30 114 GRAVEL 114 114					Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No			
					--		From Ft. to Ft.			
					Use Domestic					
					Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.					
					Casing Diameter		Weight	Hole Diameter		
					4 in. to ft.		lbs./ft.			
					Open Hole from ft. to ft.					
					Screen Make Type					
					Diameter		Slot/Gauze	Length	Set Between	
					Static Water Level					
72 ft. from Land surface Date Measured 1957										
PUMPING LEVEL (below land surface)										
77 ft. after hrs. pumping 8 g.p.m.										
Well Head Completion										
Pitless adapter manufacturer Model										
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade										
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)										
REMARKS										
NURE NO. 600781.										
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)										
Unique Number Date N/A										
Verification Information from owner										
System UTM - Nad83, Zone15, Meters X: 251083 Y: 4907976										
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No										
Nearest Known Source of Contamination										
_feet _direction _type										
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No										
Pump <input type="checkbox"/> Not Installed Date Installed										
Manufacturer's name Model number __ HP @ Volts										
Length of drop Pipe _ft. Capacity _g.p.m Type Material										
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>										
Yes <input type="checkbox"/> No										
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/>										
No										
Well Contractor Certification										
Minnett Well Drilling 59234 MINNETT, J.										
License Business Name Lic. Or Reg. No. Name of Driller										
First Bedrock Aquifer Quat. Buried Artes. Aquifer										
Last Strat Gravel (+larger) Depth to Bedrock ft.										
County Well Index Online Report										
212836										
Printed 6/29/2008 HE-01205-07										

Minnesota Unique Well No.

212879

County Lincoln
 Quad Tyler
 Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 08/12/1992
 Received Date

Minnesota Statutes Chapter 1031

Well Name OLD PEOPLES HOME Township Range Dir Section Subsections Elevation 1727 ft. 109 44 W 10 ABBCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 182 ft. Depth Completed 182 ft. Date Well Completed 00/00/1961
Drilling Method Cable Tool				
Well Address TYLER MN		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Commercial				
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
Casing Diameter 5 in. to 182 ft. Weight lbs./ft. Hole Diameter				
Open Hole from ft. to ft.				
Screen Make Type				
Diameter		Slot/Gauze	Length	
Set Between				
Static Water Level 80 ft. from Land surface Date Measured 1961				
PUMPING LEVEL (below land surface) 80 ft. after hrs. pumping 0 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ft. Capacity ___g.p.m. Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification Minnett Well Drilling 59234 MINETT, C. License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Last Strat Gravel (+larger)		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		212879	Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

222296

County Lincoln
 Quad Dead Coon Lake
 Quad ID 83D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 08/12/1992
 Received Date

Minnesota Statutes Chapter 103I

Well Name GYLLING, ROBERT		Well Depth 45 ft.	Depth Completed 45 ft.	Date Well Completed		
Township Range Dir Section Subsections Elevation 110 44 W 34 DDDDBDD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --				
Well Address TYLER MN Geological Material CLAY Color Hardness From To CLAY YELLOW 0 12 SAND 12 14 CLAY BLUE 14 45		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Domestic				
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
		Casing Diameter 30 in. to 45 ft.		Weight lbs./ft.	Hole Diameter	
		Open Hole from ft. to ft.				
		Screen Make Type				
		Diameter		Slot/Gauze	Length	Set Between
		Static Water Level 10 ft. from Land surface Date Measured				
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 250967 Y: 4908288		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Nearest Known Source of Contamination _feet _direction _type				
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0.5 Volts Length of drop Pipe 40 ft. Capacity _g.p.m Type Material				
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Clay-gray Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Well Contractor Certification United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller				
County Well Index Online Report		222296		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

222303

County Lincoln
 Quad Tyler
 Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 03/17/1992
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name THOMPSON</p> <p>Township Range Dir Section Subsections Elevation 1750 ft. 7.5 minute 109 44 W 10 BBAAAD Elevation Method topographic map (-/- 5 feet)</p>	<p>Well Depth 425 ft. Depth Completed 425 ft. Date Well Completed 08/15/1957</p> <p>Drilling Method</p>																																																																									
<p>Well Address</p> <p>TYLER MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr><td>TILL</td><td>YELLOW</td><td></td><td>0</td><td>8</td></tr> <tr><td>FINE SAND & WATER</td><td></td><td></td><td>8</td><td>30</td></tr> <tr><td>TILL</td><td>BLUE</td><td></td><td>30</td><td>128</td></tr> <tr><td>VERY FINE SAND BAILED DRY</td><td></td><td></td><td>128</td><td>150</td></tr> <tr><td>TILL</td><td>BLUE</td><td></td><td>150</td><td>195</td></tr> <tr><td>TILL</td><td>YELLOW</td><td></td><td>195</td><td>220</td></tr> <tr><td>TILL</td><td>BLUE</td><td></td><td>220</td><td>250</td></tr> <tr><td>BOULDERS IN CLAY MATRIX</td><td></td><td></td><td>250</td><td>262</td></tr> <tr><td>VERY SANDY TILL</td><td>BLUE</td><td></td><td>262</td><td>300</td></tr> <tr><td>SAND SOME GRAVEL & WATER</td><td></td><td></td><td>300</td><td>304</td></tr> <tr><td>TILL VERY COMPACT LARGE GRAVELS</td><td>BLUE</td><td></td><td>304</td><td>412</td></tr> <tr><td>TILL</td><td>YELLOW</td><td></td><td>412</td><td>425</td></tr> </tbody> </table>		Color	Hardness	From	To	TILL	YELLOW		0	8	FINE SAND & WATER			8	30	TILL	BLUE		30	128	VERY FINE SAND BAILED DRY			128	150	TILL	BLUE		150	195	TILL	YELLOW		195	220	TILL	BLUE		220	250	BOULDERS IN CLAY MATRIX			250	262	VERY SANDY TILL	BLUE		262	300	SAND SOME GRAVEL & WATER			300	304	TILL VERY COMPACT LARGE GRAVELS	BLUE		304	412	TILL	YELLOW		412	425	<p>Drilling Fluid</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Joint Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Diameter</th> <th style="width:20%;">Slot/Gauze</th> <th style="width:20%;">Length</th> <th style="width:40%;">Set Between</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between				
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Diameter	Slot/Gauze	Length	Set Between																																																																							
<p>REMARKS</p> <p>DRY HOLE 3.5 GPM AT 300 FT.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 249781 Y: 4906550</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																																									
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	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																																																									
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	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																																									
	<p>Well Contractor Certification <u>Minett Well Drilling</u> <u>59234</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																									
	<p>First Bedrock Aquifer Last Strat Pebbly sand/silt/clay Depth to Bedrock ft.</p>																																																																									
	<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">222303</p>																																																																								
	<p>Printed 6/29/2008 HE-01205-07</p>																																																																									

Minnesota Unique Well No.

222312

County Lincoln
 Quad Tyler
 Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/11/1988
 Update Date 08/12/1992
 Received Date

Minnesota Statutes Chapter 103I

Well Name TYLER		Well Depth 295 ft.	Depth Completed 295 ft.	Date Well Completed 00/00/1960
Township Range Dir Section Subsections Elevation	1727 ft.	Drilling Method --		
109 44 W 3 BBBBBB Elevation Method	7.5 minute topographic map (+/- 5 feet)			
Well Address TYLER MN Geological Material DIRT 0 5 CLAY YELLOW 5 30 CLAY BLUE 30 95 GRAVEL & ROCKS & SOME WATER 95 130 CLAY BLUE 130 155 LIGHT SAND & BLUE CLAY BLUE 155 188 CLAY BLUE 188 195 CLAY YELLOW 195 220 CLAY BLUE 220 224 SAND & WATER 224 232 CLAY YELLOW 232 240 CLAY BLUE 240 250 SAND & WATER 250 255 CLAY BLUE 255 268 FINE SAND DRY 268 275 CLAY BLUE 275 290 SAND & WATER 290 295	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
	Use Test well			
	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	No Above/Below 0 ft.		
	Casing Diameter 5 in. to 295 ft.	Weight lbs./ft.	Hole Diameter	
	Open Hole from ft. to ft.	Screen Make Type		
	Diameter	Slot/Gauze	Length	Set Between
	Static Water Level 72 ft. from Land surface Date Measured 1960			
	PUMPING LEVEL (below land surface) 205 ft. after hrs. pumping 30 g.p.m.			
	Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
	REMARKS TOO WEAK FOR CITY Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owncr System UTM - Nad83, Zone15, Meters X: 249472 Y: 4908197	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Well Contractor Certification Minnett Well Drilling 59234 MINETT, J.		
Last Strat Sand	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		222312		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

630679

County Lincoln
 Quad Tyler
 Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 11/12/2004
 Update Date 01/16/2007
 Received Date 01/26/2005

Minnesota Statutes Chapter 103I

Well Name R&R HIGH SCHOOL Township Range Dir Section Subsections Elevation 1710 ft. 109 44 W 3 BABB Elevation Method Calc from DEM (USGS 7.5 min or equiv.)				Well Depth 172 ft. Depth Completed 172 ft. Date Well Completed 08/02/2004 Drilling Method Non-specified Rotary																										
Well Address 100 STRONG ST TYLER MN <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>DIRT</td> <td>BLACK</td> <td>SOFT</td> <td>0</td> <td>2</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td>SOFT</td> <td>2</td> <td>32</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>SOFT</td> <td>32</td> <td>166</td> </tr> <tr> <td>WATER BEARING</td> <td>DARK</td> <td>SOFT</td> <td>166</td> <td>172</td> </tr> </table>				Geological Material	Color	Hardness	From	To	DIRT	BLACK	SOFT	0	2	CLAY	YELLOW	SOFT	2	32	CLAY	BLUE	SOFT	32	166	WATER BEARING	DARK	SOFT	166	172	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
				Geological Material	Color	Hardness	From	To																						
				DIRT	BLACK	SOFT	0	2																						
				CLAY	YELLOW	SOFT	2	32																						
				CLAY	BLUE	SOFT	32	166																						
				WATER BEARING	DARK	SOFT	166	172																						
				Use Irrigation																										
				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																										
				Casing Diameter 6 in. to 172 ft. Weight 19.2 lbs./ft. Hole Diameter 6 in. to 172 ft.																										
				Open Hole from ft. to ft.																										
<table border="0"> <tr> <td>Screen NO</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> </tr> <tr> <td></td> <td></td> <td>Set Between</td> </tr> </table>		Screen NO	Make	Type	Diameter	Slot/Gauze	Length			Set Between																				
Screen NO	Make	Type																												
Diameter	Slot/Gauze	Length																												
		Set Between																												
Static Water Level 68 ft. from Land surface Date Measured 08/02/2004																														
PUMPING LEVEL (below land surface) ft. after 1 hrs. pumping 60 g.p.m.																														
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																														
REMARKS THIS WELL IS TO WATER THE FOOTBALL FIELD Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 09/28/2004 System UTM - Nad83, Zone15, Meters X: 249875 Y: 4908193																														
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 60 ft.																														
Nearest Known Source of Contamination 72 feet S direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																														
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																														
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																														
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																														
Well Contractor Certification Minett Well Drilling 59234 MINETT, J. License Business Name Lic. Or Reg. No. Name of Driller																														
First Bedrock _____ Aquifer _____ Last Strat _____ Depth to Bedrock ft. _____		County Well Index Online Report																												
		630679																												
		Printed 6/29/2008 HE-01205-07																												

SITE SUMMARY

Site Name: Upsala

Fire Department: Upsala Fire Department
PO Box 164
Upsala, MN 56384

Site Contact: Jay Baggenstoss, Fire Chief
320-573-4101

Training Location: 110 W. Elm Avenue, Upsala

Type of foam used in training: Class A-B Hi Expansion: Unsure of brand, 3M brand assumed

Foam training frequency: Semi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Storm sewer

Annual foam use: Class A-B Hi Ex: 5 to 10 gallons

Nearest surface water: North Twin River, less than 1/4 mile north

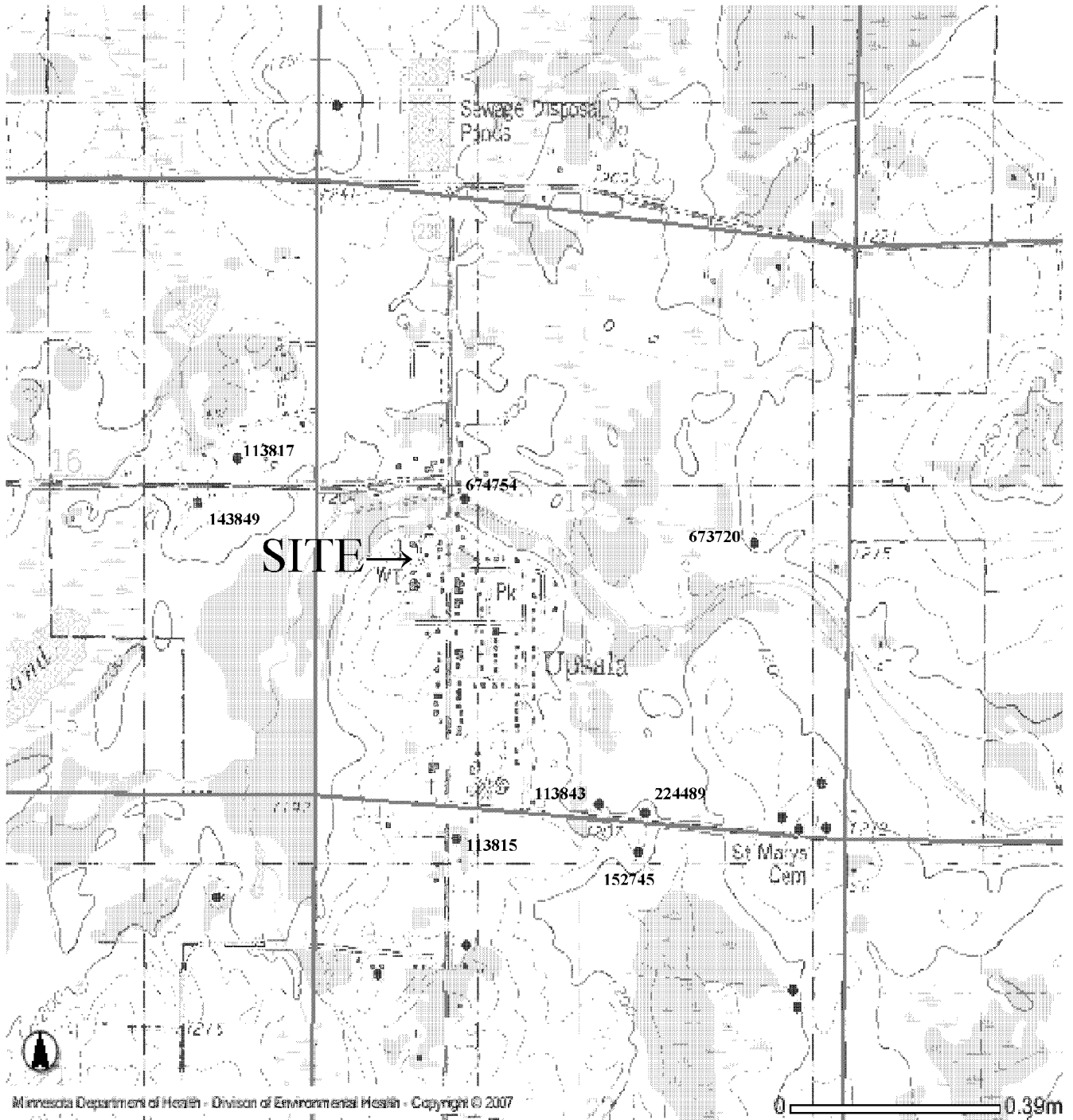
Nearest wetland: Less than 1/4 mile north

Nearest water well: Less than 1/4 mile north

Nearest Wellhead Protection Area: More than 1 mile

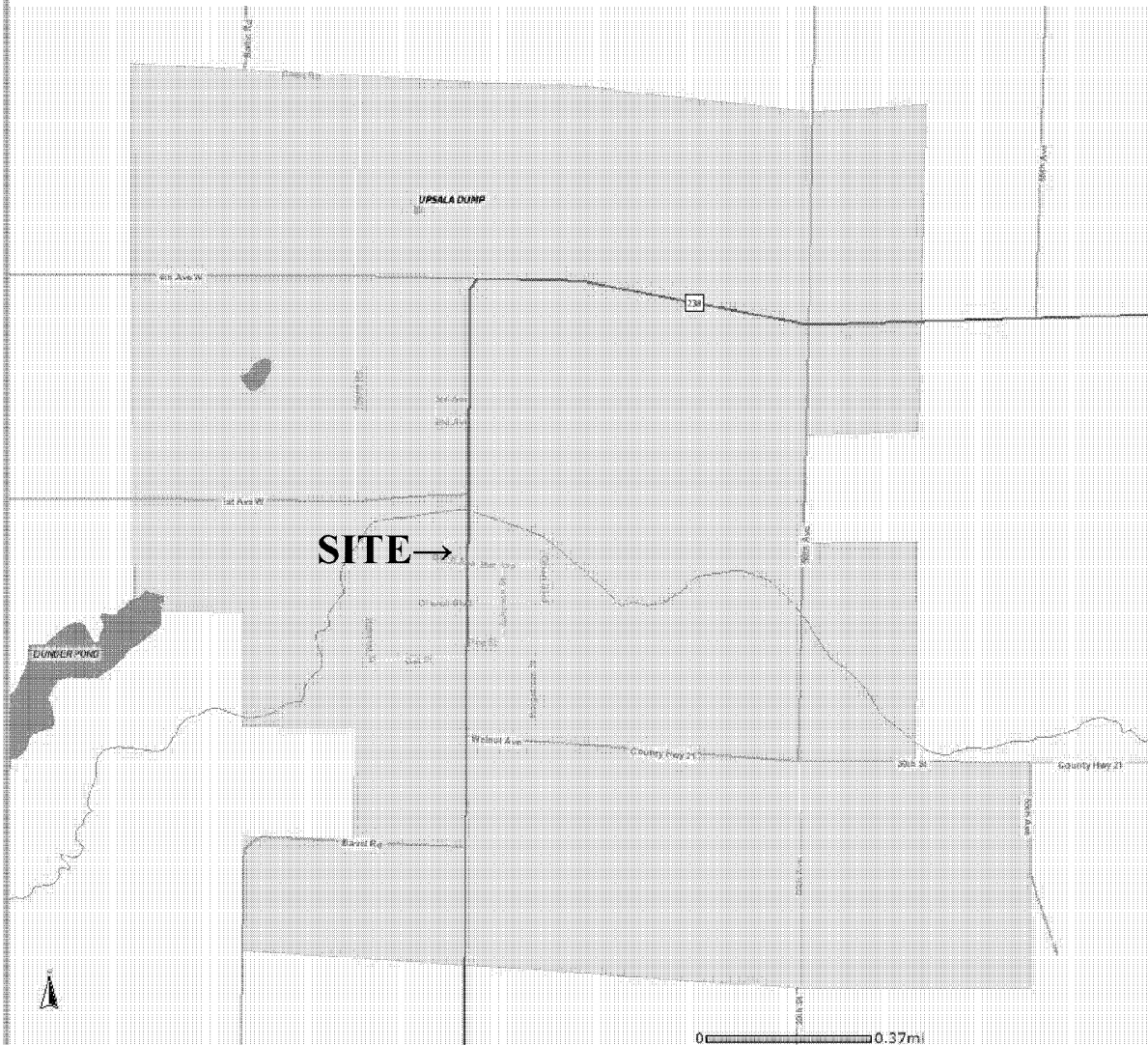
SITE RANKING: 21

UPSALA CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Upsala What's In My Neighborhood Map



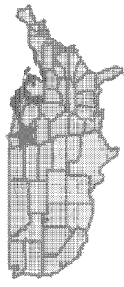
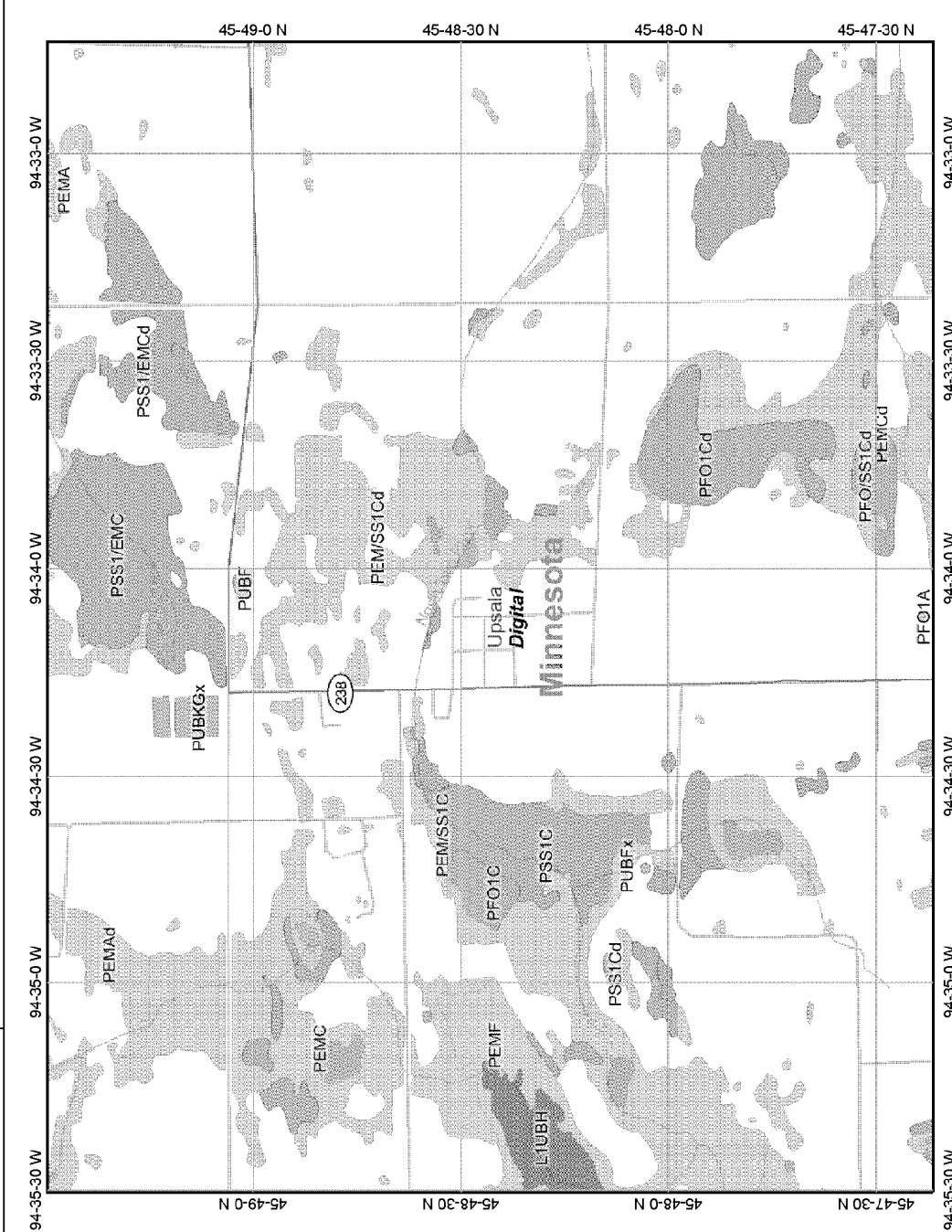
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- RCRA Investigation & Cleanup
- ▲ State Assessment

Upsala Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,720

Map center: 45° 48' 26" N, 94° 34' 7" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

113815

County Morrison
 Quad Upsala
 Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

Well Name GETHSEMANE LUTHERAN CH. Township Range Dir Section Subsections Elevation 1221 ft. 127 31 W 22 BBBDCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 104 ft. Depth Completed 104 ft. Date Well Completed 08/07/1975
Well Address UPSALA MN 56384		Drilling Method Cable Tool Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material CLAY & ROCKS SAND BLUE CLAY BROWN CLAY BLUE CLAY SAND		Use Domestic Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. Casing Diameter 4 in. to 100 ft. Weight 11 lbs./ft. Hole Diameter Open Hole from ft. to ft. Screen YES Make JOHNSON Type stainless steel Diameter 4 Slot/Gauze Length Set Between 100 ft. and 104 ft.
Color Hardness From To 0 18 18 38 38 80 80 90 90 98 98 104		Static Water Level 25 ft. from Land surface Date Measured 09/30/1975 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
NO REMARKS		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Name on mailbox System UTM - Nad83, Zone15, Meters X: 377914 Y: 5073284		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Nearest Known Source of Contamination 400 feet _direction_ _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/30/1975 Manufacturer's name RED JACKET Model number BVC HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity 15 g.p.m. Type Submersible Material
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Eckstrom Well 49101 ECKSTROM, D. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		113815 Printed 6/29/2008 HF-01205-07

Minnesota Unique Well No.

113817

County Morrison
 Quad Upsala
 Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

<p>Well Name HOVLAND, DAN Township Range Dir Section Subsections Elevation 1212 ft. 127 31 W 16 ADCDAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 70 ft. Depth Completed 70 ft. Date Well Completed 09/18/1975 Drilling Method Cable Tool</p>	
<p>Well Address UPSALA MN 56384</p> <p>Geological Material Color Hardness From To YELLOW CLAY 0 10 SAND 10 19 BROWN CLAY 19 30 BLUE CLAY 30 60 GRAY SAND 60 70</p>	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter 4 in. to 64 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make HOWARD SMITH Type stainless steel</p> <p>Diameter 4 Slot/Gauze 18 Length 4 Set Between 64 ft. and 70 ft.</p> <p>Static Water Level 21 ft. from Land surface Date Measured 09/25/1975</p> <p>PUMPING LEVEL (below land surface) 21 ft. after 1 hrs. pumping 15 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	
	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from neighbor System UTM - Nad83, Zone15, Meters X: 377257 Y: 5074283</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/17/1975 Manufacturer's name <u>RED JACKET</u> Model number <u>BVC</u> HP <u>0.5</u> Volts <u>230</u> Length of drop Pipe <u>48</u> ft. Capacity <u>15</u> g.p.m. Type <u>Submersible</u> Material <u>Galvanized</u></p>
	<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Eckstrom Well</u> <u>49101</u> <u>ECKSTROM,</u> <u>D.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>
	<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">113817</p> <p style="text-align: right;">Printed 6/29/2008 HE-01205-07</p>

Minnesota Unique Well No.

113843

County Morrison
 Quad Upsala
 Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

<p>Well Name LAVINE, WALTER Township Range Dir Section Subsections Elevation 1199 ft. 7.5 minute topographic map (+/- 5 feet) 127 31 W 15 DCCADB Elevation Method</p>	<p>Well Depth 38 ft. Depth Completed 38 ft. Date Well Completed 10/19/1976 Drilling Method Cable Tool</p>
<p>Well Address UPSALA MN 56384</p> <p>Geological Material Color Hardness From To CLAY BROWN 0 20 CLAY BLUE 20 28 SAND GRAY 28 38</p>	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Domestic</p>
	<p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p>
	<p>Casing Diameter 4 in. to 34 ft. Weight lbs./ft. Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen YES Make JOHNSON Type stainless steel</p>
	<p>Diameter 4 Slot/Gauze 10 Length 4 Set Between 34 ft. and 38 ft.</p>
	<p>Static Water Level 18 ft. from Land surface Date Measured 10/26/1976</p>
	<p>PUMPING LEVEL (below land surface) 18 ft. after 1 hrs. pumping 7 g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Other, note in remarks Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 378342 Y: 5073374</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Nearest Known Source of Contamination _feet _direction _type</p>
	<p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/26/1976 Manufacturer's name MEYERS Model number H.P.33 HP 0.33 Volts 110 Length of drop Pipe 30 ft. Capacity 7 g.p.m Type Jet Material Plastic</p>
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>County Well Index Online Report</p>	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
	<p>Well Contractor Certification Eckstrom Well 49101 <u>ECKSTROM</u> D.</p>
	<p>License Business Name Lic. Or Reg. No. Name of Driller</p>
<p>113843</p>	
<p>Printed 6/29/2008 HE-01205-07</p>	

Minnesota Unique Well No.

143849

County Morrison
 Quad Upsala
 Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

Well Name WEDIN, JOHN Township Range Dir Section Subsections Elevation 1212 ft. 127 31 W 16 DABBBB Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 132 ft.	Depth Completed 99 ft.	Date Well Completed 09/27/1977	
Drilling Method Non-specified Rotary				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 2 ft.			
Well Address RR 1 BOX 11 BURTRUM MN 56318				Casing Diameter 4 in. to 90 ft.	Weight lbs./ft.	Hole Diameter	
Geological Material CLAY CLAY SANDY SLATE SLATE				Color BROWN GRAY GRAY GRAY	Hardness HARD HARD SOFT SOFT	From To 0 22 22 88 88 125 125 132	
Open Hole from ft. to ft.				Screen YES Make JOHNSON Type stainless steel			
Diameter 4 Slot/Gauze 20 Length 8 Set Between 90 ft. and 99 ft.				Static Water Level 25 ft. from Land surface Date Measured 09/29/1977			
PUMPING LEVEL (below land surface) 50 ft. after 2 hrs. pumping 18 g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Cuttings from 0 to 70 ft.			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Nearest Known Source of Contamination 100 feet W direction Septic tank/drain field type			
Unique Number Verification Information from neighbor Date N/A				Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
System UTM - Nad83, Zone15, Meters X: 377137 Y: 5074166				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/29/1977 Manufacturer's name <u>DEMPSTER</u> Model number <u>MF3-50</u> HP <u>0.5</u> Volts <u>230</u> Length of drop Pipe <u>63</u> ft. Capacity <u> </u> g.p.m. Type <u>Submersible</u> Material <u>Galvanized</u>			
First Bedrock Cretaceous Regolith Aquifer Cretaceous Regolith				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Last Strat Precambrian Crystalline Roc Depth to Bedrock 88 ft.				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report				Well Contractor Certification <u>Traut Well</u> <u>73157</u> <u>ZUPAN, K.</u> License Business Name Lic. Or Reg. No. Name of Driller			
				143849		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

152745

County Morrison
 Quad Upsala
 Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

Well Name SEURER, ROBERT Township Range Dir Section Subsections Elevation 127 31 W 22 ABBADA Elevation Method 1210 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 40 ft.	Depth Completed 40 ft.	Date Well Completed 07/27/1978
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter 4 in. to 36 ft.	Weight 10.89 lbs./ft.	Hole Diameter
Well Address RR 1 HOLDINGFORD MN 56340		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
Geological Material CLAY CLAY SAND		Color BROWN GRAY GRAY	Hardness MEDIUM MEDIUM SOFT	From To 0 21 21 36 36 40
		Diameter 4	Slot/Gauze 12	Length 4
		Set Between 36 ft. and 40 ft.		
		Static Water Level 21 ft. from Land surface Date Measured 07/27/1978		
		PUMPING LEVEL (below land surface) 30 ft. after 1 hrs. pumping 10 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 70 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Other, note in remarks Date N/A System UTM - Nad83, Zone15, Meters X: 378459 Y: 5073247		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/01/1978 Manufacturer's name WEBTROL Model number 102S58 HP 0.5 Volts 230 Length of drop Pipe 34 ft. Capacity 10 g.p.m. Type Submersible Material Plastic		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Last Strat Sand-gray		Well Contractor Certification North Star Drilling 48038 FLICKER, D. License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		Printed 6/29/2008 HE-01205-07		
County Well Index Online Report		152745		

Minnesota Unique Well No.

224489

County Morrison
 Quad Upsala
 Quad ID 177D

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I**

Entry Date 04/13/1988
 Update Date 03/26/2004
 Received Date

Well Name CARLSEN, HAROLD Township Range Dir Section Subsections Elevation 127 31 W 15 DCDCCC Elevation Method 1207 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 43 ft. Depth Completed 43 ft. Date Well Completed 09/30/1956
Drilling Method Cable Tool		
Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic		
Casing Type Steel (black or low carbon) <input type="checkbox"/> No Above/Below 1 ft. <input type="checkbox"/> Yes Joint No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes		
Casing Diameter 4 in. to 43 ft.		Weight lbs./ft.
Open Hole from 0 ft. to 0 ft.		Hole Diameter
Screen YES Make JOHNSON Type		
Diameter 5	Slot/Gauze 30	Length 3 Set Between ft. and ft.
Static Water Level 20 ft. from Land surface Date Measured 09/30/1956		
PUMPING LEVEL (below land surface) 30 ft. after 2 hrs. pumping 10 g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		

NO REMARKS

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger
 (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System UTM - Nad83, Zone15, Meters X: 378480 Y: 5073351

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 06/28/2002
Update Date 12/03/2007
Received Date

Minnesota Unique Well No.

673720

County Morrison
Quad Upsala
Quad ID 177D

*Minnesota Statutes Chapter
1031*

Well Name WOLLER, STEVE		Well Depth 28 ft.	Depth Completed 28 ft.	Date Well Completed 04/09/2002
Township Range Dir Section Subsections Elevation 127 31 W 15 DABABB		Elevation Method 1204 ft. 7.5 minute topographic map (+/- 5 feet)		
Drilling Method Non-specified Rotary				
Drilling Fluid Other		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic				
Casing Type Plastic		Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Casing Diameter 5 in. to 20 ft.		Weight lbs./ft.	Hole Diameter 8.75 in. to 28 ft.	
Open Hole from ft. to ft.				
Screen YES		Make BIG FOOT	Type plastic	
Diameter 5	Slot/Gauze 15	Length 8	Set Between 20 ft. and 28 ft.	
Geological Material CLAY SAND	Color BROWN BROWN	Hardness	From 0 15	To 15 28
Static Water Level 20 ft. from Land surface		Date Measured 04/09/2002		
PUMPING LEVEL (below land surface) 21 ft. after 2 hrs. pumping		20 g.p.m.		
Well Head Completion Pitless adapter manufacturer		Model		
<input type="checkbox"/> Casing Protection		<input checked="" type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Grout Material: High solids bentonite		from 0 to 10 ft.		
Nearest Known Source of Contamination 500 feet S direction		Body of water type		
Well disinfected upon completion?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pump <input type="checkbox"/> Not Installed		Date Installed		
Manufacturer's name		Model number	HP	Volts
Length of drop Pipe		ft.	Capacity	g.p.m. Type Material
Abandoned Wells Does property have any not in use and not sealed well (s)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

NO REMARKS

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System UTM - Nad83, Zone15, Meters **X:** 378807 **Y:** 5074061

First Bedrock Last Strat Sand-brown	Aquifer Depth to Bedrock ft.	Well Contractor Certification <u>Albany Wells</u> <u>73667</u> <u>THOMAS</u> License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		673720	Printed 6/29/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 11/25/2002
Update Date 09/19/2007
Received Date

Minnesota Unique Well No.

674754

County Morrison
Quad Upsala
Quad ID 177D

*Minnesota Statutes Chapter
1031*

Well Name KOETTER, PAUL & KATHY				Well Depth 1204 ft.		Depth Completed 16 ft.		Date Well Completed 04/22/2002																	
Township Range Dir Section Subsections Elevation 127 31 W 15 BDC				Elevation Method Calc from DEM (USGS 7.5 min or equiv.)		Drilling Method Auger (non-specified)																			
Well Address 129 MAIN ST UPSALA MN Geological Material SILTY SAND CLAYEY SILTY SAND SANDY CLAY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>7</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>7</td> <td>12</td> </tr> <tr> <td>GRAY</td> <td>MEDIUM</td> <td>12</td> <td>16</td> </tr> </tbody> </table>				Color	Hardness	From	To	BROWN	MEDIUM	0	7	BROWN	SOFT	7	12	GRAY	MEDIUM	12	16	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.			
				Color	Hardness	From	To																		
				BROWN	MEDIUM	0	7																		
				BROWN	SOFT	7	12																		
				GRAY	MEDIUM	12	16																		
				Use Monitor well																					
				Casing Type Plastic Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.																					
				Casing Diameter 2 in. to 6 ft.		Weight lbs./ft.		Hole Diameter 8 in. to 16 ft.																	
				Open Hole from ft. to ft.																					
				Screen YES Make MONOFLEX Type plastic																					
Diameter 2		Slot/Gauze 1		Length 10		Set Between 6 ft. and 16 ft.																			
Static Water Level 8 ft. from Land surface Date Measured 04/22/2002																									
PUMPING LEVEL (below land surface) fl. after hrs. pumping g.p.m.																									
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																									
REMARKS MW-1 Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 377939 Y: 5074176				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 4 ft. 2 bags Grout Material: Bentonite from 4 to 5 ft. 1 bag																					
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																									
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification		
		<u>Glacial Ridge Drilling</u>	<u>M0173</u>	<u>RUCHTI, B.</u>
		License Business Name	Lic. Or Reg. No.	Name of Driller
County Well Index Online Report		674754		Printed 6/29/2008 HE-01205-07

SITE SUMMARY

Site Name: Waconia

Fire Department: Waconia Fire Department
26 S. Maple Street
Waconia, MN 55387

Site Contact: Randall Sorenson, Fire Chief
952-442-2316
fire@waconia.org

Training Location: 7550 Airport Road; 8075 Paradise Lane; and 26 S. Maple Street, Waconia

Type of foam used in training: AFFF: Angus
AR-AFFF: Angus
Class A: Angus

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Not specified

Annual foam use: AFFF: less than 5 gallons
AR-AFFF: less than 5 gallons
Class A: more than 50 gallons

Nearest surface water: Airport Road site: Piersons Lake, less than 1/4 mile southeast
Paradise Lane and Maple Street sites: Lake Waconia, less than 1/4 mile north

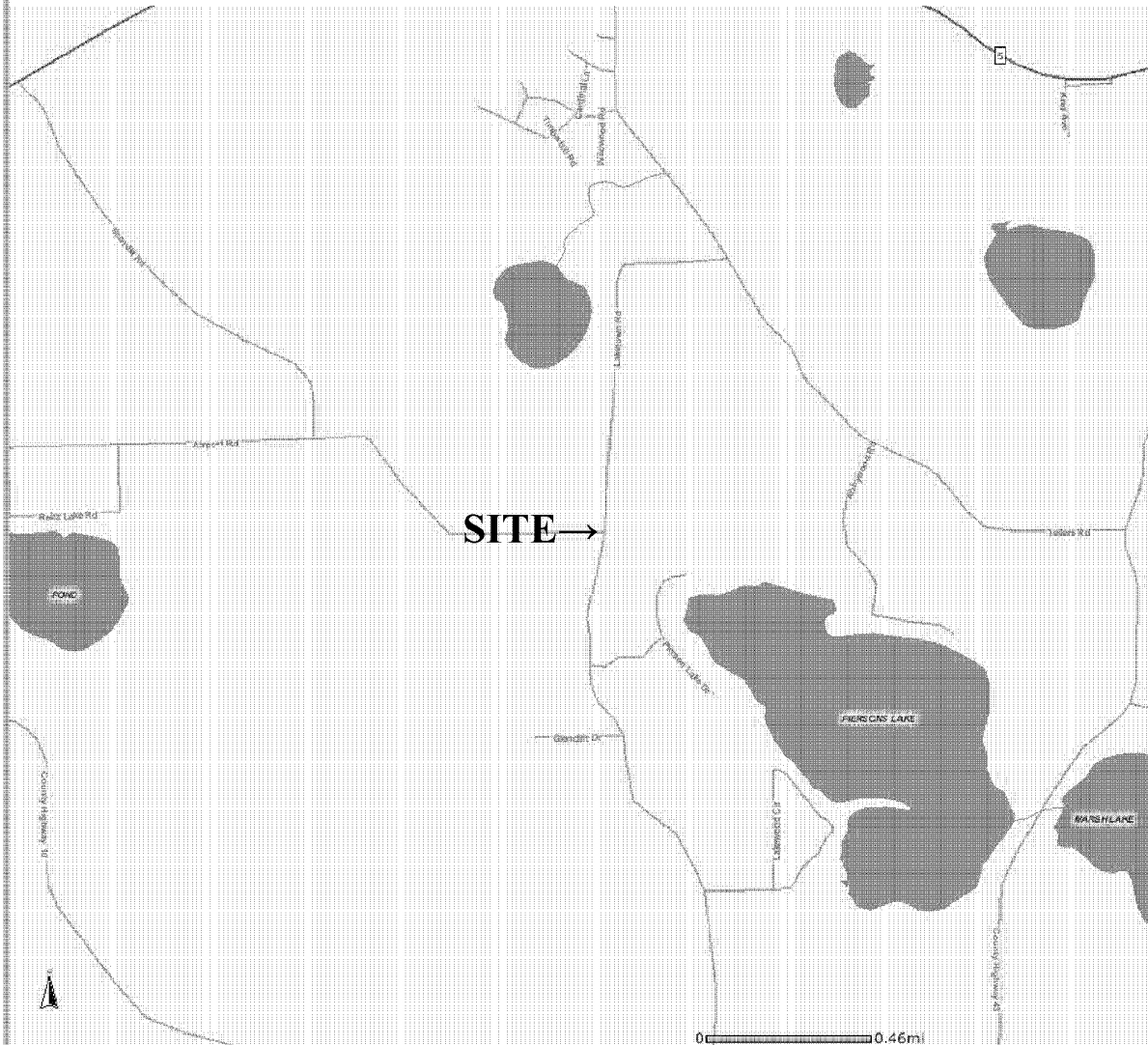
Nearest wetland: Airport Road site: less than 1/4 mile southeast
Paradise Lane site: less than 1/4 mile northeast
Maple Street site: 1/4 to 1/2 mile west

Nearest water well: Less than 1/4 mile for all three training sites

Nearest Wellhead Protection Area: Paradise Lane and Maple Street sites are located in Wellhead Protection Area

SITE RANKING: 18

Waconia Airport Road *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

130775

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
 Update Date 05/08/2007
 Received Date

Well Name GILJ.MIESTER, JAMES Township Range Dir Section Subsections Elevation 985 ft. 116 24 W 21 DBDCDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 167 ft. Depth Completed 167 ft. Date Well Completed 01/24/1977																				
		Drilling Method Non-specified Rotary																				
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																				
		Use Domestic																				
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.																				
		Casing Diameter 4 in. to 162 ft. Weight lbs./ft. Hole Diameter																				
		Open Hole from ft. to ft.																				
		Screen YES Make JOINSON Type stainless steel																				
Geological Material YELLOW CLAY BLUE CLAY CLAY & SAND COARSE SAND		<table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>23</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>23</td> <td>86</td> </tr> <tr> <td>GRAY</td> <td>SOFT</td> <td>86</td> <td>160</td> </tr> <tr> <td>BROWN</td> <td></td> <td>160</td> <td>167</td> </tr> </tbody> </table>	Color	Hardness	From	To	BROWN	SOFT	0	23	GRAY	SOFT	23	86	GRAY	SOFT	86	160	BROWN		160	167
Color	Hardness	From	To																			
BROWN	SOFT	0	23																			
GRAY	SOFT	23	86																			
GRAY	SOFT	86	160																			
BROWN		160	167																			
Well Address RR 2 CHASKA MN 55318		Diameter 2 Slot/Gauze 12 Length 5 Set Between 162 ft. and 167 ft.																				
		Static Water Level 105 ft. from Land surface Date Measured 01/24/1977																				
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																				
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																				
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0																				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination 70 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																				
Unique Number Verification Information from neighbor Date 05/08/2007 System UTM - Nad83, Zone15, Meters X: 443889 Y: 4965144		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 02/10/1977 Manufacturer's name AERMOTOR Model number HP 0.75 Volts 230 Length of drop Pipe 144 ft. Capacity 10 g.p.m. Type Submersible Material Steel (black or low carbon)																				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																				
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-brown Depth to Bedrock ft.		Well Contractor Certification Leuthner Well Co. 10125 SCHMIEG, K. License Business Name Lic. Or Reg. No. Name of Driller																				
County Well Index Online Report		130775 Printed 6/29/2008 HE-01205-07																				

Minnesota Unique Well No.

130795

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
 Update Date 11/30/1993
 Received Date

Well Name WOLF, LYNN Township Range Dir Section Subsections Elevation 990 ft. 116 24 W 21 DBAABB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 152 ft. Depth Completed 152 ft. Date Well Completed 05/11/1977
		Drilling Method Non-specified Rotary
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Domestic
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.
		Casing Diameter 4 in. to 147 ft. Weight lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen YES Make JOINSON Type stainless steel
Geological Material CLAY CLAY SAND		Color YELLOW BLUE BROWN Hardness SOFT SOFT SOFT From 0 43 142 To 43 142 152
Well Address RR 2 CHASKA MN 55318		Diameter 2 Slot/Gauze 15 Length 5 Set Between 147 ft. and 152 ft.
		Static Water Level 110 ft. from Land surface Date Measured 05/11/1977
		PUMPING LEVEL (below land surface) ft. after 2 hrs. pumping 40 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination 75 feet N direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Unique Number Verification Name on mailbox Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/29/1977 Manufacturer's name FLINT & WALLING Model number HP 0.75 Volts 230 Length of drop Pipe 136 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)
System UTM - Nad83, Zone15, Meters X: 443958 Y: 4965508		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Leuthner Well Co. 10125 LEUTHNER M. License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Sand-brown		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.
County Well Index Online Report		130795 Printed 6/29/2008 IIE-01205-07

Minnesota Unique Well No.

142771

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/19/1989
 Update Date 08/20/2007
 Received Date

Well Name TOUNE, JIM Township Range Dir Section Subsections Elevation 979 ft. 116 24 W 21 DBDBDD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 149 ft.	Depth Completed 149 ft.	Date Well Completed 12/14/1977																				
Drilling Method Non-specified Rotary																											
Drilling Fluid --					Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																						
Use Domestic																											
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																											
Casing Diameter 4 in. to 144 ft. Weight lbs./ft. Hole Diameter																											
Open Hole from ft. to ft.																											
Screen YES Make JOHNSON Type stainless steel																											
Geological Material <table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>YELLOW</td> <td>SOFT</td> <td>0 21</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>SOFT</td> <td>21 92</td> </tr> <tr> <td>SAND & CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>92 142</td> </tr> <tr> <td>SAND</td> <td>BROWN</td> <td>SOFT</td> <td>142 149</td> </tr> </tbody> </table>					Color	Hardness	From	To	CLAY	YELLOW	SOFT	0 21	CLAY	BLUE	SOFT	21 92	SAND & CLAY	GRAY	SOFT	92 142	SAND	BROWN	SOFT	142 149	Diameter 2 Slot/Gauze 12 Length 5 Set Between 144 ft. and 149 ft.		
Color	Hardness	From	To																								
CLAY	YELLOW	SOFT	0 21																								
CLAY	BLUE	SOFT	21 92																								
SAND & CLAY	GRAY	SOFT	92 142																								
SAND	BROWN	SOFT	142 149																								
Static Water Level 100 ft. from Land surface Date Measured 12/14/1977																											
PUMPING LEVEL (below land surface) ft. after 2 hrs. pumping 30 g.p.m.																											
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																											
NO REMARKS					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0																						
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)					Nearest Known Source of Contamination 55 feet W direction Tanks type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
Unique Number Verification Information from neighbor Date 05/08/2007					Pump <input checked="" type="checkbox"/> Not Installed Date Installed 01/10/1978 Manufacturer's name FLINT & WALLING Model number HP 0.75 Volts 230 Length of drop Pipe 123 ft. Capacity 10 g.p.m. Type Submersible Material Steel (black or low carbon)																						
System UTM - Nad83, Zone15, Meters X: 443894 Y: 4965234					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
First Bedrock Aquifer Quat. Buried Artes. Aquifer					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
Last Strat Sand-brown Depth to Bedrock ft.					Well Contractor Certification Leuthner Well Co. 10125 LEUTHNER. R. License Business Name Lic. Or Reg. No. Name of Driller																						
County Well Index Online Report					142771		Printed 6/29/2008 HE-01205-07																				

Minnesota Unique Well No.

142772

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 09/19/1989
 Update Date 08/20/2007
 Received Date

Well Name JERECZEK, LAURENCE Township Range Dir Section Subsections Elevation 968 ft. 116 24 W 21 DBDACB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 144 ft.	Depth Completed 144 ft.	Date Well Completed 11/29/1977
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 139 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES	Make JOHNSON	Type stainless steel
Well Address RR 2 CHASKA MN 55318		Diameter 2	Slot/Gauze 12	Length 5
Geological Material		Set Between 139 ft. and 144 ft.		
CLAY	Color YELLOW	Hardness SOFT	From 0	To 18
CLAY	Color BLUE	Hardness SOFT	From 18	To 87
CLAY & SAND	Color GRAY	Hardness SOFT	From 87	To 136
SAND	Color BROWN	Hardness SOFT	From 136	To 144
		Static Water Level 97 ft. from Land surface Date Measured 11/29/1977		
		PUMPING LEVEL (below land surface) ft. after 2 hrs. pumping 30 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0		
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information from neighbor Date N/A		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/29/1977 Manufacturer's name FLINT & WALLING Model number HP 0.75 Volts 230 Length of drop Pipe 120 ft. Capacity 10 g.p.m. Type Submersible Material Steel (black or low carbon)		
System UTM - Nad83, Zone15, Meters X: 443940 Y: 4965269		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Leuthner Well Co. 10125 LEUTHNER, M. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand-brown		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		142772		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

159035

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
 Update Date 11/29/1993
 Received Date

<p>Well Name WORM, MELVIN Township Range Dir Section Subsections Elevation 1033 ft. 116 24 W 21 CAAACA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 196 ft. Depth Completed 196 ft. Date Well Completed 08/14/1979 Drilling Method Non-specified Rotary</p>																																								
<p>Well Address RR 1 WACONIA MN 55387</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>YELLOW CLAY</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>38</td> </tr> <tr> <td>CLAY & SAND</td> <td>BROWN</td> <td>SOFT</td> <td>38</td> <td>47</td> </tr> <tr> <td>BLUE CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>47</td> <td>79</td> </tr> <tr> <td>CLAY & SAND</td> <td>GRAY</td> <td>SOFT</td> <td>79</td> <td>180</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>180</td> <td>184</td> </tr> <tr> <td>SAND & CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>184</td> <td>188</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>188</td> <td>196</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	YELLOW CLAY	BROWN	SOFT	0	38	CLAY & SAND	BROWN	SOFT	38	47	BLUE CLAY	GRAY	SOFT	47	79	CLAY & SAND	GRAY	SOFT	79	180	SAND	GRAY	SOFT	180	184	SAND & CLAY	GRAY	SOFT	184	188	SAND	GRAY	SOFT	188	196	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</p> <p>Casing Diameter 4 in. to 191 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <p>Diameter 2 Slot/Gauze 12 Length 5 Set Between 191 ft. and 196 ft.</p> <p>Static Water Level 153 ft. from Land surface Date Measured 08/14/1979</p> <p>PUMPING LEVEL (below land surface) ft. after 2 hrs. pumping 30 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
	Geological Material	Color	Hardness	From	To																																				
	YELLOW CLAY	BROWN	SOFT	0	38																																				
	CLAY & SAND	BROWN	SOFT	38	47																																				
	BLUE CLAY	GRAY	SOFT	47	79																																				
	CLAY & SAND	GRAY	SOFT	79	180																																				
	SAND	GRAY	SOFT	180	184																																				
	SAND & CLAY	GRAY	SOFT	184	188																																				
	SAND	GRAY	SOFT	188	196																																				
	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification Plat Book Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 443557 Y: 4965451</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/21/1979 Manufacturer's name FLINT & WALLING Model number ___ HP 0.75 Volts 230 Length of drop Pipe 182 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)</p>																																							
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Leuthner Well Co.</u> <u>10125</u> <u>LEUTHNER,</u> License Business Name Lic. Or Reg. No. Name of Driller <u>M.</u></p>																																								
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">159035</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/29/2008 HE-01205-07</p>																																								

Minnesota Unique Well No.

208914

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
 Update Date 05/08/2007
 Received Date

Well Name HONEBRINK, ROGER Township Range Dir Section Subsections Elevation 982 ft. 116 24 W 21 DBDBAB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 154 ft.	Depth Completed 154 ft.	Date Well Completed 03/17/1973
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter 4 in. to 154 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES Make Type		
Geological Material YELLOW CLAY BLUE CLAY CLAY & SAND CLAY CLAY & SAND SAND & CLAY WATER SAND	Color BROWN GRAY GRAY GRAY GRAY GRAY BROWN	Hardness	From 0 10 82 93 101 136 144	To 10 82 93 101 136 144 154
		Static Water Level 105 ft. from Land surface Date Measured 03/17/1973		
		PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 30 g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Information from owner Date 05/08/2007		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe ___ft. Capacity ___g.p.m Type Material		
System UTM - Nad83, Zone15, Meters X: 443866 Y: 4965301		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Leuthner Well Co. 10125 License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand-brown Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		County Well Index Online Report		
		208914		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

208915

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
 Update Date 05/08/2007
 Received Date

Well Name ERBEL, DAVID Township Range Dir Section Subsections Elevation 1005 ft. 116 24 W 21 DBDCCD Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 187 ft.	Depth Completed 187 ft.	Date Well Completed 08/18/1973
Drilling Method Non-specified Rotary							
Drilling Fluid --					Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Use Domestic							
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.							
Casing Diameter 4 in. to 182 ft.		Weight lbs./ft.	Hole Diameter				
Open Hole from ft. to ft.							
Screen YES Make Type stainless steel							
Geological Material YELLOW CLAY BLUE CLAY SAND & CLAY CLAY WATER SAND		Color BROWN GRAY GRAY GRAY BROWN	Hardness 	From 0 37 120 138 178	To 37 120 138 178 187		
Diameter 2		Slot/Gauze 12	Length 5	Set Between 182 ft. and 187 ft.			
Static Water Level 145 ft. from Land surface Date Measured 08/18/1973							
PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 25 g.p.m.							
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)							
NO REMARKS							
Located Minnesota Geological Survey		Method Digitization (Screen) - Map (1:24,000)					
Unique Number Verification Information from owner		Date 05/08/2007					
System UTM - Nad83, Zone15, Meters		X: 443836 Y: 4965129					
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material							
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Well Contractor Certification <u>Leuthner Well Co.</u> <u>10125</u> <u>SCHMIEG, K.</u> License Business Name Lic. Or Reg. No. Name of Driller							
First Bedrock Last Strat Sand-brown		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.					
County Well Index Online Report		208915		Printed 6/29/2008 HE-01205-07			

Minnesota Unique Well No.

552800

County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 06/11/1996
 Update Date 08/22/2007
 Received Date

Well Name NORTON, CHARLES JR. Township Range Dir Section Subsections Elevation 983 ft. 116 24 W 21 DABCCD Elevation Method CALC FROM 2-FOOT COUNTY DEM				Well Depth 145 ft.	Depth Completed 145 ft.	Date Well Completed 10/05/1994	
Drilling Method Non-specified Rotary				Drilling Fluid Water			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.			
Well Address 9205 PIERSON LAKE DR CHASKA MN				Casing Diameter 4 in. to 140 ft.	Weight 11 lbs./ft.	Hole Diameter 6 in. to 140 ft.	
Geological Material				Open Hole from ft. to ft.			
CLAY	BROWN	SOFT	0	36	Screen YES Make JOHNSON Type stainless steel		
SANDY CLAY	BLU/GRN	SOFT	36	54	Diameter 5 Slot/Gauze 10 Length 7 Set Between 140 ft. and 145 ft.		
CLAY	BLU/GRN	HARD	54	132	Static Water Level 101 ft. from Land surface Date Measured 10/05/1994		
SAND	BROWN	MEDIUM	132	145	PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 140 ft. 4 bags			
NO REMARKS				Nearest Known Source of Contamination 51 feet South East direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Located Carver Land & Water Services Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address Date 05/08/2007 System UTM - Nad83, Zone15, Meters X: 444045 Y: 4965323				Pump <input type="checkbox"/> Not Installed Date Installed 10/06/1994 Manufacturer's name AERMOTOR Model number A12-100 HP 1 Volts 220 Length of drop Pipe 129 ft. Capacity 12 g.p.m. Type Submersible Material			
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Well Contractor Certification Hartmann Well Co. 40174 HARTMANN, K. License Business Name Lic. Or Reg. No. Name of Driller				County Well Index Online Report			
First Bedrock				552800			
Last Strat Sand-brown Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.				Printed 6/29/2008 HE-01205-07			

Minnesota Unique Well No.

601586

County Carver
 Quad Victoria
 Quad ID 105C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 01/03/2001
 Update Date 08/22/2007
 Received Date

Minnesota Statutes Chapter 1031

Well Name MONROE, STEVE		Well Depth 196 ft.	Depth Completed 196 ft.	Date Well Completed 08/12/1997
Township Range Dir Section Subsections Elevation 116 24 W 21 DBDCBD Elevation Method CALC FROM 2-FOOT COUNTY DEM		Drilling Method Non-specified Rotary		
Well Address 9260 PIERSON LAKE DR CHASKA MN		Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint Unknown Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 191 ft.	Weight lbs./ft.	Hole Diameter 6.5 in. to 196 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	30
CLAY	BLUE	SOFT	30	130
CLAY GRAVEL	BLUE	SOFT	130	185
SAND			185	196
		Diameter 2 Slot/Gauze 22 Length 5 Set Between 191 ft. and 196 ft.		
		Static Water Level 130 ft. from land surface Date Measured 08/12/1997		
		PUMPING LEVEL (below land surface) 162 ft. after 1 hrs. pumping 30 g.p.m.		
		Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 6 to 191 ft. 2 yds.		
Located Carver Land & Water Services	Method Digitization (Screen) - Map (1:24,000)	Nearest Known Source of Contamination 100 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number	Date 05/08/2007	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name STA RITE Model number HP 0.75 Volts 220 Length of drop Pipe 162 ft. Capacity 10 g.p.m Type Submersible Material		
Verification Address verification	X: 443814 Y: 4965182	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Well Contractor Certification Braunwarth Well Co. 10068 BRAUNWARTH, M License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand	Depth to Bedrock ft.			

County Well Index Online Report	601586	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

657155

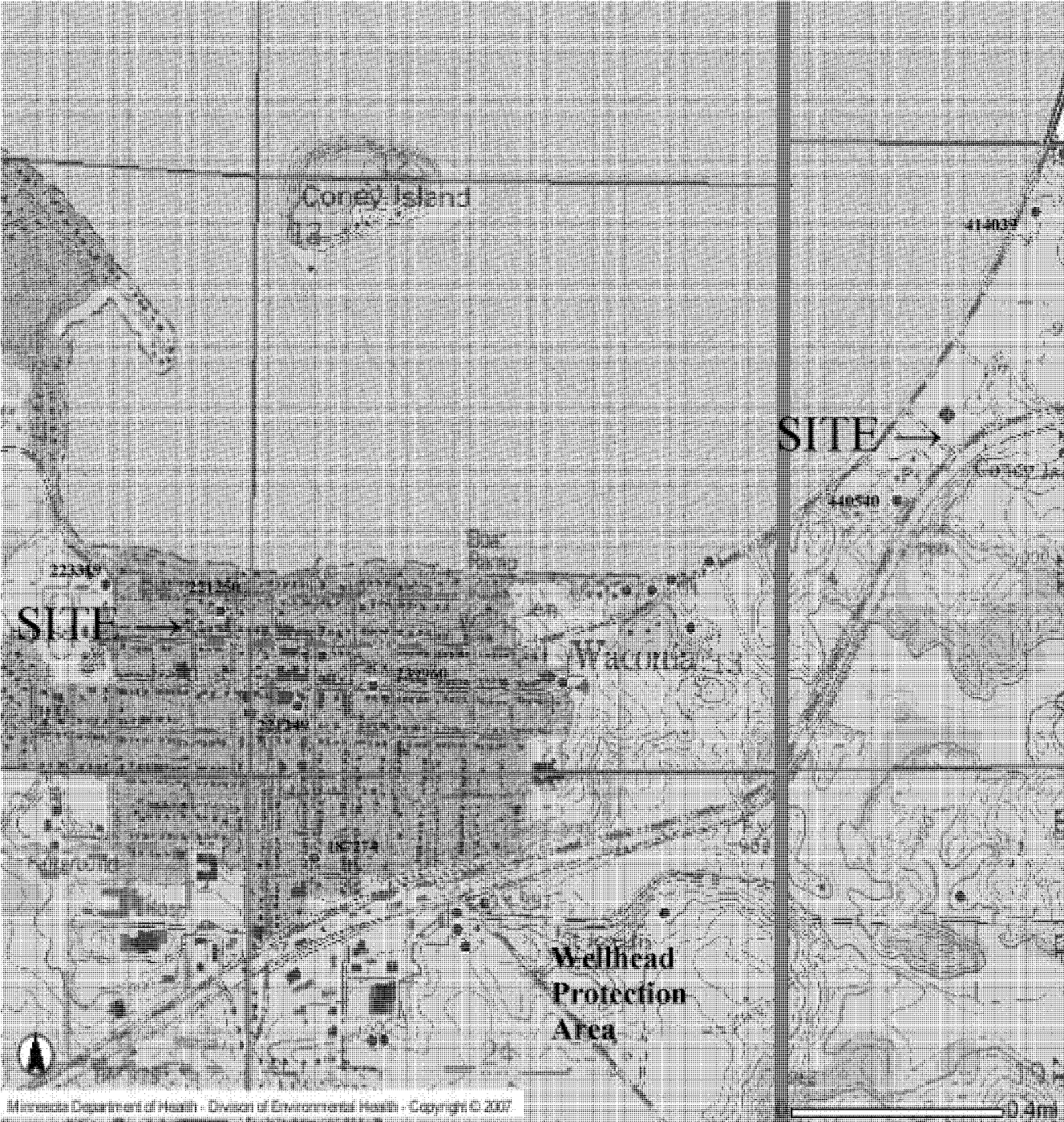
County Carver
 Quad Victoria
 Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/28/2001
 Update Date 08/22/2007
 Received Date

Well Name MOHN, STEVEN Township Range Dir Section Subsections Elevation 985 ft. 116 24 W 21 DAACBD Elevation Method CALC FROM 2-FOOT COUNTY DEM				Well Depth 153 ft.	Depth Completed 153 ft.	Date Well Completed 03/01/2001
Well Address 9204 PIERSON LAKE DR CHASKA MN				Drilling Method Non-specified Rotary		
Geological Material CLAY CLAY CLAY & SAND SAND & CLAY SAND				Drilling Fluid Qwik gel		
Color BROWN GRAY GRAY BROWN BROWN				Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.		
Hardness SOFT SOFT SOFT SOFT SOFT				Use Domestic		
From To 0 29 29 84 84 119 119 143 143 153				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
				Casing Diameter 4 in. to 148 ft.	Weight 11 lbs./ft.	Hole Diameter 8.5 in. to 30 ft. 6.25 in. to 153 ft.
				Open Hole from ft. to ft.		
				Screen YES	Make JOHNSON	Type stainless steel
				Diameter 2	Slot/Gauze 15	Length 5
				Set Between 148 ft. and 153 ft.		
				Static Water Level 115 ft. from Land surface Date Measured 03/01/2001		
				PUMPING LEVEL (below land surface) 120 ft. after 1 hrs. pumping 30 g.p.m.		
				Well Head Completion Pitless adapter manufacturer WHITEWATER Model SU 45.5 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 0 to 30 ft. 3 bags		
Located Carver Land & Water Services Method Digitization (Screen) - Map (1:24,000)				Nearest Known Source of Contamination 80 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address Date 05/08/2007 verification				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name RED JACKET Model number HP 0.75 Volts 220 Length of drop Pipe 147 ft. Capacity 10 g.p.m Type Submersible Material		
System UTM - Nad83, Zone15, Meters X: 444268 Y: 4965398				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
				Well Contractor Certification Leuthner Well Co. 10125 LEUTHNER, M. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Sand-brown				Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report				657155		Printed 6/29/2008 HE-01205-07

WACONIA Maple Street and Paradise Lane CWI Well Map



Waconia Maple-Paradise *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

187274

County Carver
 Quad Waconia
 Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/26/1988
 Update Date 07/18/2007
 Received Date

Well Name MAAS, RANDY Township Range Dir Section Subsections Elevation 1035 ft. 116 25 W 24 BBCAAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 132 ft. Depth Completed 132 ft. Date Well Completed 05/30/1984
		Drilling Method Non-specified Rotary
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Domestic
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
		Casing Diameter 4 in. to 127 ft. Weight lbs./ft. Hole Diameter
		Open Hole from ft. to ft.
		Screen YES Make JOHNSON Type stainless steel
		Diameter 2 Slot/Gauze 5 Length 127 ft. Set Between and 132 ft.
		Static Water Level 60 ft. from Land surface Date Measured 05/30/1984
		PUMPING LEVEL (below land surface) 127 ft. after 1.5 hrs. pumping 15 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS 425 ELM ST.SO. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 03/20/2007 System UTM - Nad83, Zone15, Meters X: 437892 Y: 4966055		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to 132 ft. 0
		Nearest Known Source of Contamination 75 feet E direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/30/1984 Manufacturer's name TAIT Model number HP 0.75 Volts 220 Length of drop Pipe 72 ft. Capacity 12 g.p.m. Type Submersible Material Galvanized
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Braunwarth Well Co. 10068 BRAUNWARTH, M License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Sand-gray Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		County Well Index Online Report 187274 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

221249

County Carver
 Quad Waconia
 Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
 Update Date 02/19/2008
 Received Date

Well Name WACONIA 1 Township Range Dir Section Subsections Elevation 116 25 W 13 CCCABA Elevation Method 1035 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 847 ft. Depth Completed 847 ft. Date Well Completed 00/00/1924 Drilling Method Cable Tool
Well Address WACONIA MN 55387		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Abandoned <input type="checkbox"/> Status Sealed <input type="checkbox"/>
Geological Material CLAY To 55 SANDY CLAY From 0 CLAY 55 BOULDER 65 CLAY 139 CLAY 140 SAND 214 GRAVEL 304 GRAVEL 462 RED SHALE 465 DARK GREEN SHALE 490 LIGHT GREEN SHALE 501 LIGHT GREEN SHALE 526 SANDSTONE 527 GRAY SHALE 668 HINCKLEY SANDSTONE 670 RED SHALE 676 690 847		Casing Type Steel (black or low carbon) <input type="checkbox"/> Joint No Information <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Above/Below 0 ft. Casing Diameter Weight Hole Diameter 16 in. to 466 ft. lbs./ft. 16 in. to 547 ft. 12 in. to 547 ft. lbs./ft. 12 in. to 847 ft. Open Hole from 547 ft. to 847 ft. Screen NO Make Type Length Set Between
REMARKS 16 IN. CASING IS SLOTTED FROM 398-437 FEET OBSERVED FROM TV. GAMMA LOGGED 10-7-1997. WELL LOCATED IN BACK OF CITY HALL. TV LOG 16 IN. SEEN TO 442 FT. 12 IN. CASING 442-549 FT. WELL SEALED 10-15-1997 BY 27058. ORIGINAL USE PC - COMMUNITY SUPPLY.		Static Water Level 137 ft. from L and surface Date Measured 1938 PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Located Minnesota Geological Survey Method GPS Differentially Corrected Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone 15, Meters X: 437841 Y: 4966462		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination _feet _direction _type <input type="checkbox"/> Yes <input type="checkbox"/> No Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No

<p>Pump <input type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP _____ Volts _____</p> <p>Length of drop Pipe _____ ft. Capacity _____ g.p.m. Type _____ Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p><u>McCarthy Well Co.</u> <u>27022</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>221249</p>	
<p>Printed 6/29/2008 HE-01205-07</p>	

Borehole Geophysics Yes

First Bedrock Eau Claire

Last Strat Fond Du Lac Formation

Aquifer Mt.Simon-Fond du lac

Depth to Bedrock 462 ft.

County Well Index Online Report

Minnesota Unique Well No.

221250

County Carver
 Quad 106
 Quad ID

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
 Update Date 07/18/2007
 Received Date

<p>Well Name WACONIA CREAMERY 1 Township Range Dir Section Subsections Elevation 116 25 W 14 DDAABB Elevation Method 980 ft. 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 230 ft. Depth Completed 230 ft. Date Well Completed 00/00/1933 Drilling Method Cable Tool</p>	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
<p>Well Address 1ST & MAPLE ST. WACONIA MN 55387</p>	<p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>	<p>Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>	<p>Use Industrial</p>
<p>Geological Material NO RECORD</p>	<p>Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft. <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Open Hole from ft. to ft. Screen YES Make Type Diameter Slot/Gauze Length Set Between</p>	<p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Located Minnesota Geological Survey Unique Number Verification Information from neighbor System UTM - Ncad83, Zone15, Meters</p>	<p>Method Digitized - scale 1:24,000 or larger (Digitizing Table) Date N/A X: 437606 Y: 4966716</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 00/00/1933 Manufacturer's name Model number __ HP __ Volts Length of drop Pipe __ ft. Capacity 325_g.p.m. Type Material</p>
<p><i>NO REMARKS</i></p>			

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>First Bedrock Unknown deposit type</p>	<p>Aquifer Quat. Buried Artes. Aquifer</p>
<p>Last Strat Unknown deposit type</p>	<p>Depth to Bedrock <u>96460</u> ft.</p>
<p>County Well Index Online Report</p>	
<p>221250</p>	
<p>Printed 6/29/2008 HE-01205-07</p>	

Minnesota Unique Well No.

223319

County Carver
 Quad
 Quad ID 106

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/26/1988
 Update Date 02/13/2002
 Received Date

Well Name WACONIA CREAMERY 2 Township Range Dir Section Subsections Elevation 1015 ft. 116 25 W 14 DBDACD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 252 ft.	Depth Completed 252 ft.	Date Well Completed 00/00/1957	
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Industrial				Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			
Well Address WACONIA MN 55387				Casing Diameter 16 in. to 222 ft.	Weight lbs.ft.	Hole Diameter	
Geological Material				Open Hole from ft. to ft.			
YELLOW CLAY BLUE CLAY FINE SAND COARSE SAND	Color	Hardness	From 0 41 215 222	To 41 215 222 252	Screen YES Make JOHNSON EVERDUR Type		
Diameter 12				Slot/Gauze	Length 30	Set Between 222 ft. and 252 ft.	
Static Water Level 90 ft. from Land surface Date Measured 1957				PUMPING LEVEL (below land surface) 99 ft. after hrs. pumping 530 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
NO REMARKS				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 00/00/1957 Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity 500 g.p.m Type Material			
Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 437257 Y: 4966787				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand Depth to Bedrock ft.				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
County Well Index Online Report				Well Contractor Certification <u>Mueller Well Co.</u> 96460 License Business Name Lic. Or Reg. No. Name of Driller			
				223319		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

239960

County Carver
 Quad Waconia
 Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/23/1992
 Update Date 02/19/2008
 Received Date

Well Name WACONIA 2 Township Range Dir Section Subsections Elevation 1054 ft. 116 25 W 13 CCADDB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 480 ft.	Depth Completed 480 ft.	Date Well Completed 00/00/1949		
Drilling Method Cable Tool					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Abandoned Status Sealed					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
Well Address WACONIA MN 55387					Casing Diameter 12 in. to ft.		Weight lbs/ft.		Hole Diameter
Geological Material GLACIAL DRIFT					Open Hole from ft. to ft.		Screen YES Make Type		
Color Hardness From To 0 480					Diameter		Slot/Gauze		Length Set Between
Static Water Level ft. from Date Measured					PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
REMARKS GAMMA LOGGED 9/26/97. WELL SEALED 11-12-1997 BY 27058 ORIGINAL USE MU - MUNICIPAL					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:12,000)					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number__ HP__ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Unique Number Verification Information from owner Date 08/24/2004					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
System UTM - Nad83, Zone15, Meters X: 438072 Y: 4966516					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Borehole Geophysics Yes					Well Contractor Certification McCarthy Well Co. 27022 License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock Aquifer Last Strat Unknown deposit type Depth to Bedrock ft.					County Well Index Online Report				
					239960		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

414039

County Carver
 Quad Waconia
 Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/26/1988
 Update Date 08/22/2007
 Received Date

<p>Well Name ANDERSON, DON Township Range Dir Section Subsections Elevation 975 ft. 116 24 W 18 BAACDB Elevation Method CALC FROM 2-FOOT COUNTY DEM</p>	<p>Well Depth 151 ft. Depth Completed 151 ft. Date Well Completed 07/01/1985 Drilling Method Non-specified Rotary</p>																																	
<p>Well Address 7925 30 CR WACONIA MN</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Geological Material</th> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>YELLOW CLAY</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>24</td> </tr> <tr> <td>BLUE CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>24</td> <td>96</td> </tr> <tr> <td>CLAY & SAND</td> <td>GRAY</td> <td>SOFT</td> <td>96</td> <td>141</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>141</td> <td>151</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	YELLOW CLAY	BROWN	SOFT	0	24	BLUE CLAY	GRAY	SOFT	24	96	CLAY & SAND	GRAY	SOFT	96	141	SAND	GRAY	SOFT	141	151	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter 4 in. to 146 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>15</td> <td>5</td> <td>146 ft. and 151 ft.</td> </tr> </tbody> </table> <p>Static Water Level 93 ft. from Land surface Date Measured 07/01/1985</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping 30 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model</p> <p><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Diameter	Slot/Gauze	Length	Set Between	2	15	5	146 ft. and 151 ft.
	Geological Material	Color	Hardness	From	To																													
	YELLOW CLAY	BROWN	SOFT	0	24																													
	BLUE CLAY	GRAY	SOFT	24	96																													
	CLAY & SAND	GRAY	SOFT	96	141																													
	SAND	GRAY	SOFT	141	151																													
	Diameter	Slot/Gauze	Length	Set Between																														
	2	15	5	146 ft. and 151 ft.																														
	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Carver Land & Water Services Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification Tax Records Date 05/03/2007</p> <p>System UTM - Nad83, Zone15, Meters X: 440093 Y: 4967782</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Bentonite from to ft.</p> <p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name PIONEER Model number ___ HP 0.75 Volts 220 Length of drop Pipe 126 ft. Capacity 10 g.p.m. Type Submersible Material Steel (black or low carbon)</p>																																
	<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification <u>Leuthner Well Co.</u> <u>10125</u> <u>LEUTHNER</u> License Business Name Lic. Or Reg. No. Name of Driller <u>M.</u></p>																																
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">414039</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/29/2008 HE-01205-07</p>																																	

Minnesota Unique Well No.

440540

County Carver
 Quad Waconia
 Quad ID 106D

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 07/25/1991
 Update Date 05/03/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name FRANTZ, LEON		Well Depth	Depth Completed	Date Well Completed																				
Township Range Dir Section Subsections Elevation		126 ft.	126 ft.	05/26/1988																				
116	24 W 18 CBADBB	Elevation Method 975 ft. 7.5 minute topographic map (+/- 5 feet)																						
		Drilling Method Non-specified Rotary																						
Well Address 9550 5 HY WACONIA MN 55387 Geological Material <table style="width:100%; border:none;"> <tr> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>TOP SOIL</td> <td>BLACK</td> <td>0</td> <td>3</td> </tr> <tr> <td>CLAY</td> <td>YELLOW</td> <td>3</td> <td>15</td> </tr> <tr> <td>CLAY</td> <td>BLUE</td> <td>15</td> <td>118</td> </tr> <tr> <td>SAND</td> <td></td> <td>118</td> <td>126</td> </tr> </table>		Color	Hardness	From	To	TOP SOIL	BLACK	0	3	CLAY	YELLOW	3	15	CLAY	BLUE	15	118	SAND		118	126	Drilling Fluid Bentonite	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To																			
		TOP SOIL	BLACK	0	3																			
		CLAY	YELLOW	3	15																			
		CLAY	BLUE	15	118																			
		SAND		118	126																			
		Use Domestic																						
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.																						
		Casing Diameter	Weight	Hole Diameter																				
		4 in. to 126 ft.	lbs./ft.	4 in. to 126 ft.																				
Open Hole from ft. to ft.																								
Screen YES Make JOHNSON Type stainless steel																								
Diameter	Slot/Gauze	Length	Set Between																					
2	18	5	121 ft. and 126 ft.																					
Static Water Level 90 ft. from Land surface Date Measured 05/26/1988																								
PUMPING LEVEL (below land surface) 126 ft. after 0.5 hrs. pumping 25 g.p.m.																								
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																								
NO REMARKS Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 09/01/2004 System UTM - Nad83, Zone15. Meters X: 439669 Y: 4967011		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 0 to ft. 0																						
		Nearest Known Source of Contamination 75 feet S direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/26/1988 Manufacturer's name JACUZZI Model number ___ HP 0.75 Volts 220 Length of drop Pipe 108 ft. Capacity 11 g.p.m. Type Submersible Material Galvanized																						
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
First Bedrock		Well Contractor Certification																						
Aquifer Quat. Buried Artes. Aquifer		Braunwarth Well Co. 10068 BRAUNWARTH, M																						
Last Strat Sand		License Business Name Lic. Or Reg. No. Name of Driller																						
Depth to Bedrock ft.																								
County Well Index Online Report		440540		Printed 6/29/2008 IIE-01205-07																				

SITE SUMMARY

Site Name: Waldorf

Fire Department: Waldorf Fire Department
PO Box 8
Waldorf, MN 56091

Site Contact: Adam Gruskreutz, Fire Chief
507-239-2248 (fire hall)
507-239-0124 (home)
adamg@myclearwave.net

Training Location: Main Street, Waldorf

Type of foam used in training: AFFF: Royal Chemical

Foam training frequency: Bi-monthly

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AFFF: 5 gallons

Nearest surface water: Cobb River, 1/4 to 1/3 mile west

Nearest wetland: Approximately 1 mile northwest

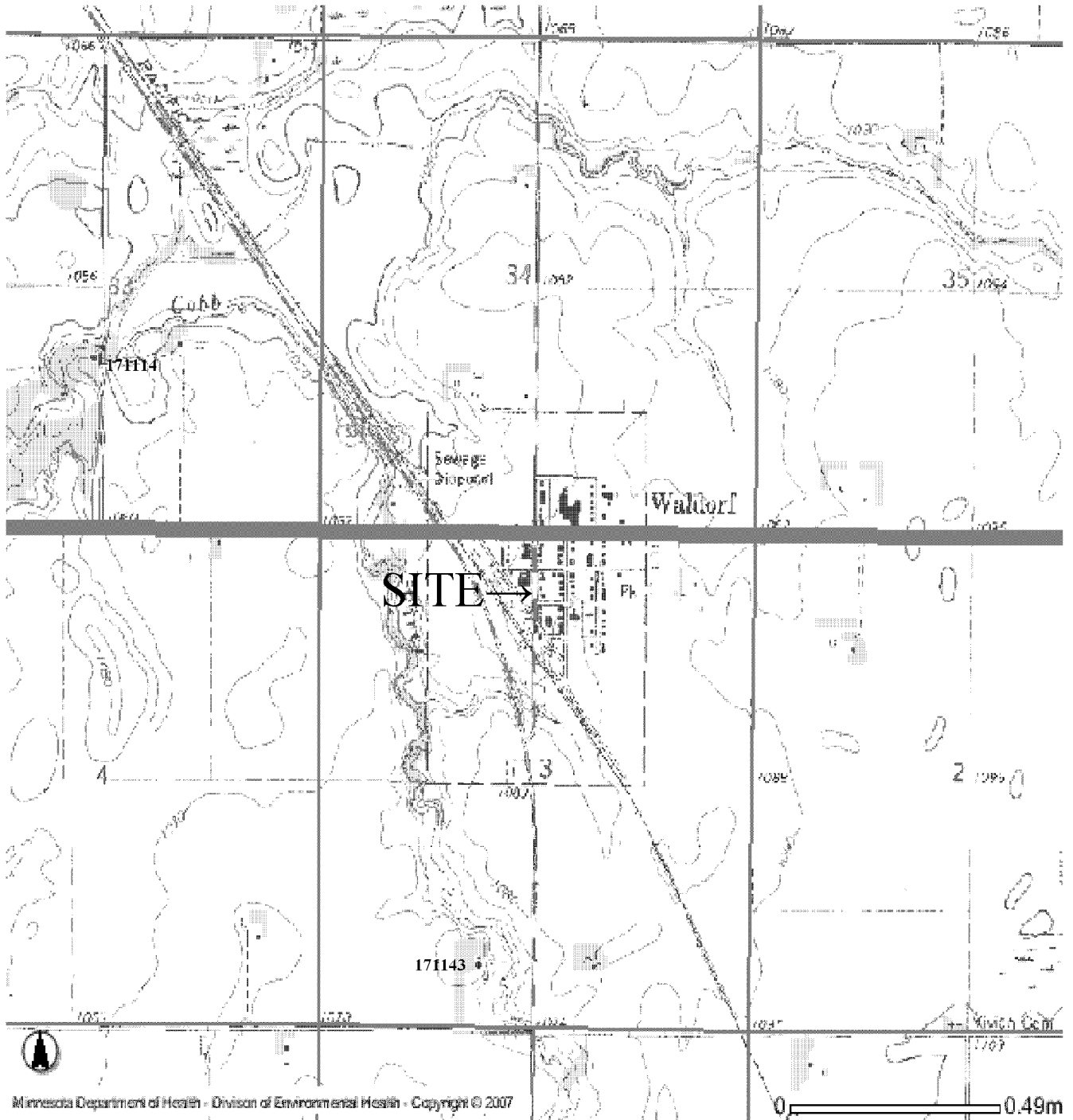
Karst Area: Training site is located in a covered karst area

Nearest water well: 3/4 to 1 mile south

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 11

WALDORF CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Waldorf What's In My Neighborhood Map

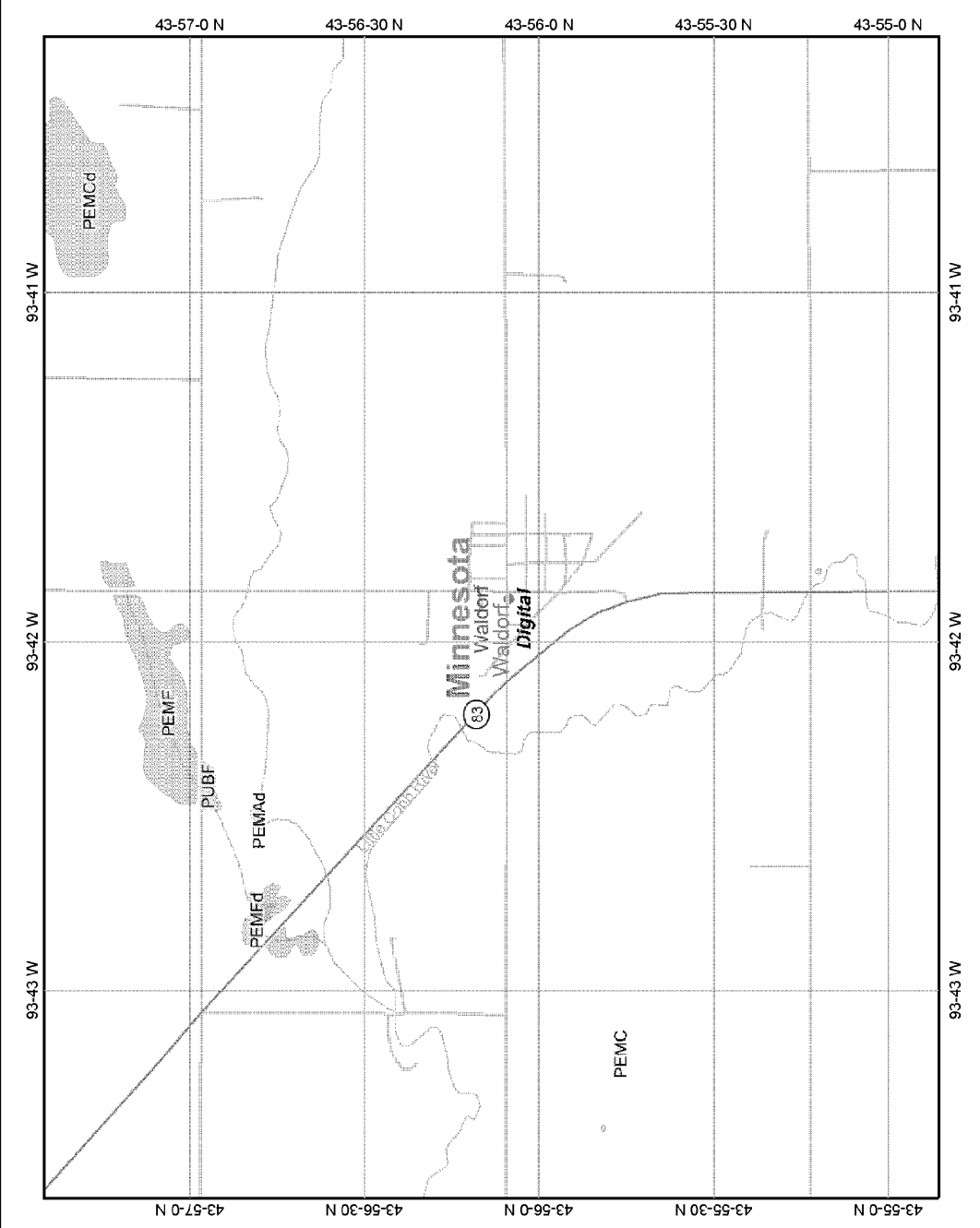


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

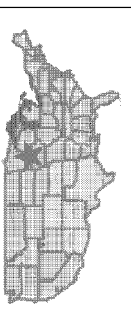
 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Waldorf Wetland Map



Map center: 43° 56' 8" N, 93° 41' 56" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:33,236

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

171114

County Waseca
 Quad Waldorf
 Quad ID 33B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/28/1989
 Update Date 09/10/2002
 Received Date

Well Name EUSTICE, DOUG Township Range Dir Section Subsections Elevation 1046 ft. 106 24 W 33 CADAAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 225 ft. Depth Completed 225 ft. Date Well Completed 05/25/1982 Drilling Method Non-specified Rotary																																			
Well Address WALDOLF MN <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>YEL/BRN</td> <td>SOFT</td> <td>0</td> <td>20</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>20</td> <td>40</td> </tr> <tr> <td>CLAY SANDY</td> <td>GRAY</td> <td>MEDIUM</td> <td>40</td> <td>152</td> </tr> <tr> <td>LIMESTONE</td> <td>BRN/WHT</td> <td>HARD</td> <td>152</td> <td>170</td> </tr> <tr> <td>SHALE</td> <td>BLU/GRN</td> <td>M.SOFT</td> <td>170</td> <td>180</td> </tr> <tr> <td>SANDSTONE</td> <td>WHITE</td> <td>MEDIUM</td> <td>180</td> <td>225</td> </tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	CLAY	YEL/BRN	SOFT	0	20	CLAY	GRAY	SOFT	20	40	CLAY SANDY	GRAY	MEDIUM	40	152	LIMESTONE	BRN/WHT	HARD	152	170	SHALE	BLU/GRN	M.SOFT	170	180	SANDSTONE	WHITE	MEDIUM	180	225	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Geological Material	Color	Hardness	From	To																															
		CLAY	YEL/BRN	SOFT	0	20																															
		CLAY	GRAY	SOFT	20	40																															
		CLAY SANDY	GRAY	MEDIUM	40	152																															
		LIMESTONE	BRN/WHT	HARD	152	170																															
		SHALE	BLU/GRN	M.SOFT	170	180																															
		SANDSTONE	WHITE	MEDIUM	180	225																															
		Use Domestic Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.																																			
		Casing Diameter 5 in. to 155 ft. Weight 15 lbs./ft. Hole Diameter 5 in. to 225 ft.																																			
Open Hole from 155 ft. to 225 ft.																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																														
Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																															
Static Water Level 43 ft. from Land surface Date Measured 05/25/1982																																					
PUMPING LEVEL (below land surface) 45 ft. after 2 hrs. pumping 20 g.p.m.																																					
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																					
<p style="text-align: center;"><i>NO REMARKS</i></p> Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 442366 Y: 4865464	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Nearest Known Source of Contamination 70 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input checked="" type="checkbox"/> Not Installed Date Installed 05/25/1982 Manufacturer's name GOULDS Model number 10EJ05412 HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity 10 g.p.m. Type Submersible Material Stainless Steel																																				
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Martin Well Co. 22109 MARTIN, G. License Business Name Lic. Or Reg. No. Name of Driller																																				
First Bedrock Platteville Aquifer Multiple Last Strat St.Peter Depth to Bedrock 152 ft.	County Well Index Online Report																																				

171114

Printed 6/29/2008
 HE-01205-07

Minnesota Unique Well No.

171143

County Waseca
 Quad Waldorf
 Quad ID 33B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/28/1989
 Update Date 03/27/1992
 Received Date

Well Name JOHNSON, ROBERT Township Range Dir Section Subsections Elevation 1082 ft. 105 24 W 3 CDBDDD Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 255 ft.	Depth Completed 255 ft.	Date Well Completed 04/29/1983																																																
Drilling Method --				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.																																															
Well Address WALDORF MN				Use Domestic																																																		
Geological Material				Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.																																																		
<table border="1"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BLACK</td><td>SOFT</td><td>0</td><td>1</td></tr> <tr><td>YEL/BRN</td><td>SOFT</td><td>1</td><td>25</td></tr> <tr><td>GRAY</td><td>SOFT</td><td>25</td><td>120</td></tr> <tr><td>MEDIUM</td><td></td><td>120</td><td>123</td></tr> <tr><td>GRAY</td><td>SOFT</td><td>123</td><td>165</td></tr> <tr><td>BLACK</td><td>MEDIUM</td><td>165</td><td>180</td></tr> <tr><td>GRY/TAN</td><td>MEDIUM</td><td>180</td><td>195</td></tr> <tr><td>GREEN</td><td>SFT-HRD</td><td>195</td><td>205</td></tr> <tr><td>BROWN</td><td>HARD</td><td>205</td><td>218</td></tr> <tr><td>BLU/GRN</td><td>MEDIUM</td><td>218</td><td>225</td></tr> <tr><td>WHITE</td><td>MEDIUM</td><td>225</td><td>255</td></tr> </tbody> </table>				Color	Hardness	From	To	BLACK	SOFT	0	1	YEL/BRN	SOFT	1	25	GRAY	SOFT	25	120	MEDIUM		120	123	GRAY	SOFT	123	165	BLACK	MEDIUM	165	180	GRY/TAN	MEDIUM	180	195	GREEN	SFT-HRD	195	205	BROWN	HARD	205	218	BLU/GRN	MEDIUM	218	225	WHITE	MEDIUM	225	255	Casing Diameter 5 in. to 196 ft. Weight lbs./ft. Hole Diameter 5 in. to 255 ft.		
Color	Hardness	From	To																																																			
BLACK	SOFT	0	1																																																			
YEL/BRN	SOFT	1	25																																																			
GRAY	SOFT	25	120																																																			
MEDIUM		120	123																																																			
GRAY	SOFT	123	165																																																			
BLACK	MEDIUM	165	180																																																			
GRY/TAN	MEDIUM	180	195																																																			
GREEN	SFT-HRD	195	205																																																			
BROWN	HARD	205	218																																																			
BLU/GRN	MEDIUM	218	225																																																			
WHITE	MEDIUM	225	255																																																			
SOIL CLAY SANDY CLAY SAND CLAY SHALE CLAY + GRAVEL SHALE LIMESTONE SHALE SANDSTONE				Open Hole from 196 ft. to 255 ft.																																																		
Static Water Level 77 ft. from Land surface Date Measured 04/29/1983				Screen NO Make Type																																																		
PUMPING LEVEL (below land surface) 80 ft. after hrs. pumping 20 g.p.m.				<table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> </tbody> </table>			Diameter	Slot/Gauze	Length	Set Between																																												
Diameter	Slot/Gauze	Length	Set Between																																																			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																		
NO REMARKS				Nearest Known Source of Contamination 100 feet N direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																		
Located Mankato State University Method Digitized - scale 1:24,000 or larger (Digitizing Table)				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 04/29/1983 Manufacturer's name GOULDS Model number 10EJ05412 HP 0.5 Volts 230 Length of drop Pipe 90 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)																																																		
Unique Number Verification Information from neighbor System UTM - Nad83, Zone15, Meters X: 443796 Y: 4863486				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																		
First Bedrock Decorah-Platteville Aquifer Multiple Last Strat St.Peter Depth to Bedrock 195 ft.				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																		
County Well Index Online Report				Well Contractor Certification Martin Well Co. 22109 MARTIN, G. License Business Name Lic. Or Reg. No. Name of Driller																																																		
171143				Printed 6/29/2008 HE-01205-07																																																		

SITE SUMMARY

Site Name: Waseca

Fire Department: Waseca Fire Department
117 2nd Avenue SE
Waseca, MN 56093

Site Contact: Gary Conrath, Fire Chief
507-835-3210
garyc@ci.waseca.mn.us

Training Location: Waseca County fairground, grand stand area

Type of foam used in training: Class B Protein: brand not specified; 3M did not make protein foam
Class A: brand not specified

Foam training frequency: Annually

Foam use per training event: 5 to 10 gallons

Spent foam destination: Ground

Annual foam use: Class B Protein: 10 gallons
Class A: 5 gallons

Nearest surface water: Clear Lake, 1/4 to 1/3 mile east

Nearest wetland: Less than 1/4 mile northeast

Karst Area: Training site is located in a covered karst area

Nearest water well: 1/2 to 1/3 mile north

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

Waseca What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

500505

County Waseca
 Quad Meriden
 Quad ID 53C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 01/28/1992
 Update Date 09/10/2002
 Received Date

Well Name WASECA GOLF CLUB Township Range Dir Section Subsections Elevation 1133 ft. 107 22 W 5 DDDDBDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 502 ft. Depth Completed 502 ft. Date Well Completed 04/20/1989
		Drilling Method Non-specified Rotary
		Drilling Fluid Bentonite Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Irrigation
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 2 ft.
		Casing Diameter 8 in. to 315 ft. Weight lbs./ft. Hole Diameter 14 in. to 315 ft. 8 in. to 502 ft.
		Open Hole from 315 ft. to 502 ft.
		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Well Address RR 3 BOX 187 WASECA MN		
Geological Material Color Hardness From To CLAY BLUE 0 83 SAND FINE GRAY 83 86 CLAY STICKY BLUE HARD 86 176 PLATVILLE LIME BRN/GRY V.HARD 176 192 SHALE BLUE 192 198 ST. PETER SANDROCK WHITE 198 314 SHAKOPEE LIME VARIED VARIED 314 502		
		Static Water Level 110 ft. from Land surface Date Measured 04/20/1989
		PUMPING LEVEL (below land surface) 0 ft. after 8 hrs. pumping 500 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from 0 to 315 ft. 7 yds.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date 06/24/2004 System UTM - Nad83, Zone15, Meters X: 460929 Y: 4882669		Nearest Known Source of Contamination 150 feet N direction type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Platteville Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 176 ft.		Well Contractor Certification Born Well Co. 81162 BORN, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		500505 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

213091

County Waseca
 Quad Waseca
 Quad ID 54D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
 Update Date 05/20/1992
 Received Date

Well Name WASECA CREAMERY Township Range Dir Section Subsections Elevation 1151 ft. 107 22 W 18 AAACCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 380 ft. Depth Completed 380 ft. Date Well Completed
		Drilling Method Cable Tool
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Commercial
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.
		Casing Diameter Weight Hole Diameter
Well Address WASECA MN 56093		Open Hole from ft. to ft.
		Screen NO Make Type
Geological Material Color Hardness From To DRIFT 0 188 SOAPSTONE 188 206 DECORAH SHALE 206 253 LIMESTONE 253 268 SOAPSTONE 268 280 ST. PETER SANDSTONE WHT/YEL 280 380		Diameter Slot/Gauze Length Set Between
		Static Water Level ft. from Date Measured
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS BLDG. WAS TORN DOWN IN 1970 AND WELL WAS ABANDONED Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification Information from owner System UTM - Nad83, Zone15, Meters X: 459253 Y: 4880703		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Variance Was a variance granted from the MDI1 for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller SUDDENDORF
County Well Index Online Report		213091
		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

213092

County Waseca
 Quad Waseca
 Quad ID 54D

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**
*Minnesota Statutes Chapter
 103I*

Entry Date 04/17/1988
 Update Date 04/02/2008
 Received Date

<p>Well Name SCHIMER</p> <p>Township Range Dir Section Subsections Elevation 1134 ft.</p> <p>107 22 W 5 CCCCAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 316 ft. Depth Completed 316 ft. Date Well Completed 08/12/1970</p> <p>Drilling Method --</p>																																					
<p>Geological Material</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%;">Color</th> <th style="width: 10%;">Hardness</th> <th style="width: 10%;">From</th> <th style="width: 10%;">To</th> </tr> </thead> <tbody> <tr> <td>DRIFT</td> <td></td> <td></td> <td align="center">0</td> <td align="center">216</td> </tr> <tr> <td>ST. PETER</td> <td></td> <td></td> <td align="center">216</td> <td align="center">316</td> </tr> </tbody> </table>		Color	Hardness	From	To	DRIFT			0	216	ST. PETER			216	316	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Casing Diameter</th> <th style="width: 33%;">Weight</th> <th style="width: 33%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Screen</th> <th style="width: 25%;">Make</th> <th style="width: 25%;">Type</th> <th style="width: 25%;"> </th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Diameter</th> <th style="width: 25%;">Slot/Gauze</th> <th style="width: 25%;">Length</th> <th style="width: 25%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter				Screen	Make	Type						Diameter	Slot/Gauze	Length	Set Between				
		Color	Hardness	From	To																																	
	DRIFT			0	216																																	
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	Casing Diameter	Weight	Hole Diameter																																			
	Screen	Make	Type																																			
	Diameter	Slot/Gauze	Length	Set Between																																		
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 459457 Y: 4882609</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																					
	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																					
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																					
	<p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																					
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																					

First Bedrock St.Peter Last Strat	Aquifer Depth to Bedrock 216 ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		213092	Printed 6/29/2008 HE-01205-07

SITE SUMMARY

Site Name: Welcome

Fire Department: Welcome Fire Department
PO Box 373
Welcome, MN 56181

Site Contact: Chris Borchardt, Training Officer
507-728-8892

Training Location: Northeast corner of Dugan Street S. and Mill Street, Welcome

Type of foam used in training: Class B Protein: National Foam

Foam training frequency: Annually

Foam use per training event: 5 gallons

Spent foam destination: Ground

Annual foam use: Class B Protein: 5 gallons

Nearest surface water: Intermittent streams 1/4 to 1/2 mile to the west and northeast

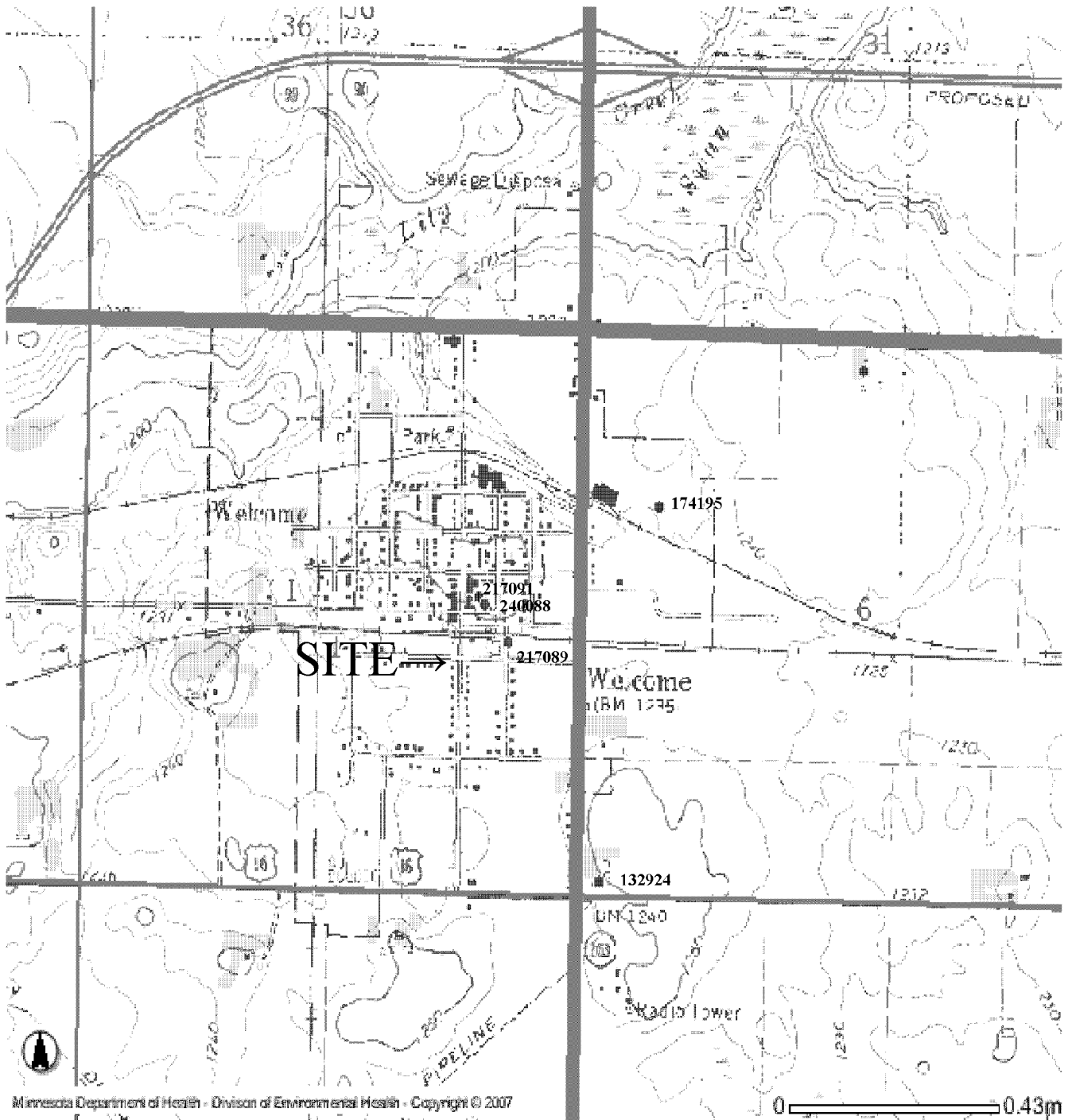
Nearest wetland: Less than 1/4 mile south

Nearest water well: Less than 1/4 mile northeast

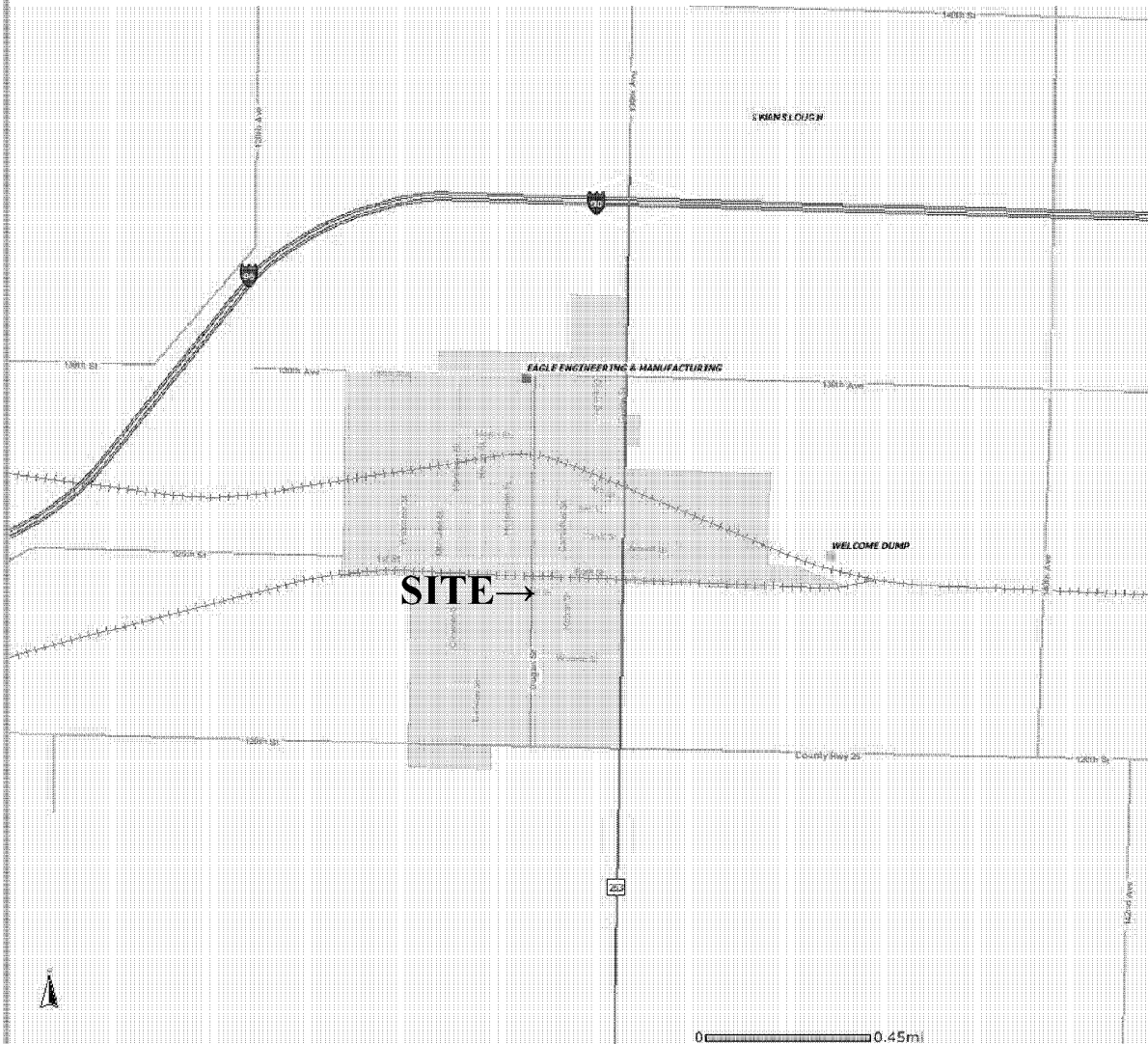
Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

WELCOME CWI Well Map



Welcome What's In My Neighborhood Map

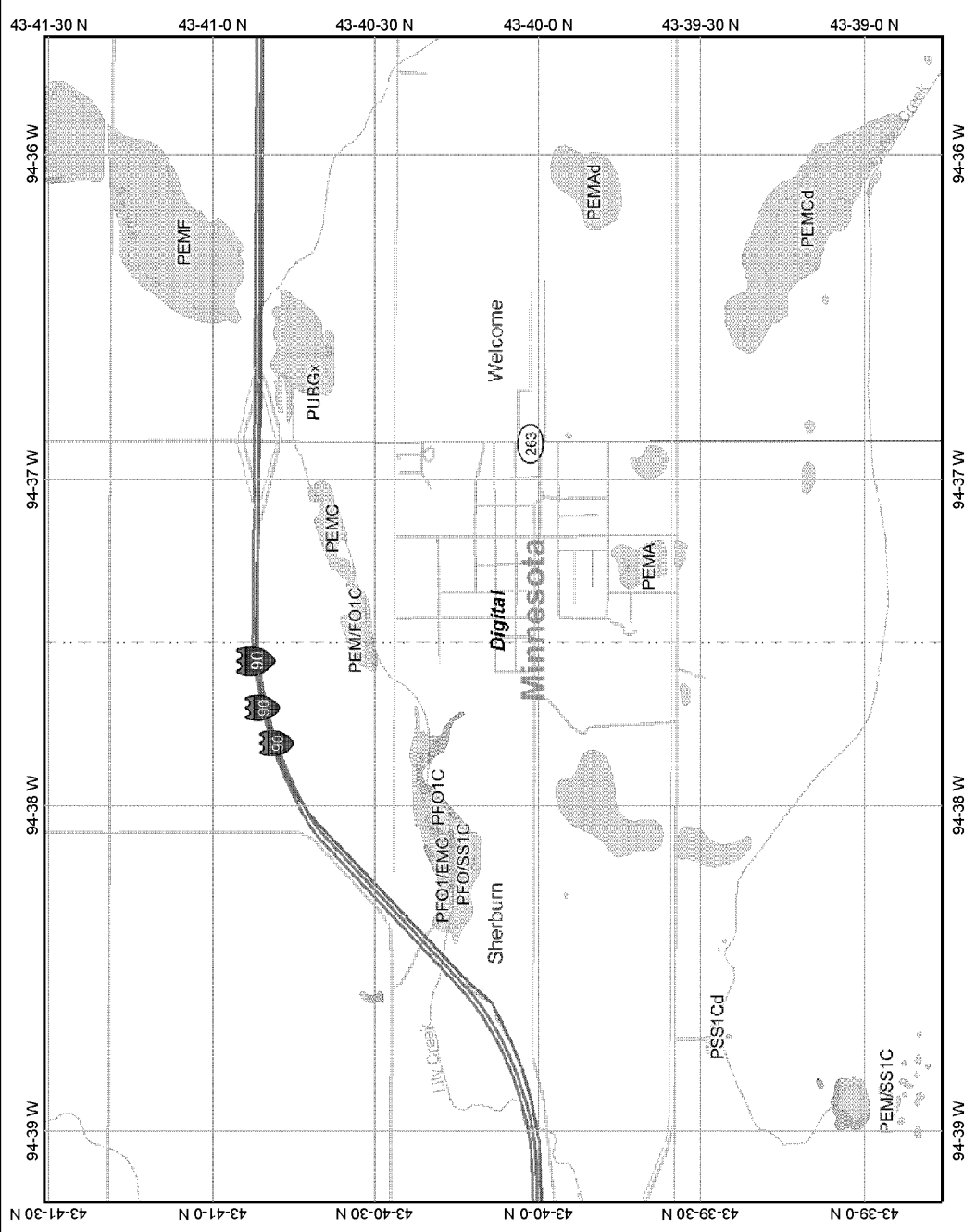


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

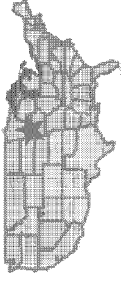
 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Welcome Wetland Map



Map center: 43° 40' 8" N, 94° 37' 26" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:35,712

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

132924

County Martin
 Quad Welcome
 Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/13/1988
 Update Date 07/30/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name RANTENKRANTZ, ELMER		Well Depth 158 ft.	Depth Completed 158 ft.	Date Well Completed 09/30/1978		
Township Range Dir Section Subsections Elevation 102 31 W 6 CCCC		Elevation Method topographic map (+/- 5 feet)				
Geological Material TOPSOIL CLAY CLAY SAND		Color BLACK	Hardness SOFT	From 0		
		Color YELLOW	Hardness SOFT	To 15		
		Color BLUE	Hardness SOFT	15		
		Color GRAY	Hardness SOFT	141		
				158		
		Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic		Casing Type Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.		
		Casing Diameter 5 in. to 150 ft.		Weight 15 lbs./ft.	Hole Diameter	
		Open Hole from ft. to ft.		Screen YES Make JOHNSON Type stainless steel		
		Diameter 5		Slot/Gauze 20	Length 10	Set Between 150 ft. and 154 ft.
Static Water Level 130 ft. from Land surface Date Measured 09/30/1978		PUMPING LEVEL (below land surface) 170 ft. after 1 hrs. pumping 15 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model		<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 369877 Y: 4835404		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Cuttings from 0 to 140 ft.				
		Nearest Known Source of Contamination 90 feet S direction type				
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material				
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock		Aquifer Quat. Buried Artes. Aquifer				
Last Strat Sand-gray		Depth to Bedrock ft.				
County Well Index Online Report		132924		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

174195

County Martin
 Quad Welcome
 Quad ID 15A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 07/30/2002
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name L+H GRAIN Township Range Dir Section Subsections Elevation 1228 ft. 102 31 W 6 BCABCA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 225 ft. Depth Completed 225 ft. Date Well Completed 07/01/1982 Drilling Method Non-specified Rotary</p>																																																
<p>Well Address WELCOME MN</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>CLAY</td> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>20</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>20</td> <td>125</td> </tr> <tr> <td>CLAY</td> <td>GRY/BRN</td> <td>SOFT</td> <td>125</td> <td>155</td> </tr> <tr> <td>CLAY</td> <td>GRAY</td> <td>SOFT</td> <td>155</td> <td>170</td> </tr> <tr> <td>SAND</td> <td>GRAY</td> <td>SOFT</td> <td>170</td> <td>225</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	CLAY	BROWN	SOFT	0	20	CLAY	GRAY	SOFT	20	125	CLAY	GRY/BRN	SOFT	125	155	CLAY	GRAY	SOFT	155	170	SAND	GRAY	SOFT	170	225	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1.5 ft.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>5 in. to 210 ft.</td> <td>lbs./ft.</td> <td>10 in. to 225 ft.</td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <p>Screen YES Make JOHNSON Type stainless steel</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>18</td> <td>5</td> <td>215 ft. and 220 ft.</td> </tr> <tr> <td>5</td> <td>15</td> <td>10</td> <td>210 ft. and 225 ft.</td> </tr> </tbody> </table> <p>Static Water Level 110 ft. from Land surface Date Measured 07/01/1982</p> <p>PUMPING LEVEL (below land surface) 200 ft. after 18 hrs. pumping 20 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	5 in. to 210 ft.	lbs./ft.	10 in. to 225 ft.	Diameter	Slot/Gauze	Length	Set Between	5	18	5	215 ft. and 220 ft.	5	15	10	210 ft. and 225 ft.
	Geological Material	Color	Hardness	From	To																																												
	CLAY	BROWN	SOFT	0	20																																												
	CLAY	GRAY	SOFT	20	125																																												
	CLAY	GRY/BRN	SOFT	125	155																																												
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	Diameter	Slot/Gauze	Length	Set Between																																													
5	18	5	215 ft. and 220 ft.																																														
5	15	10	210 ft. and 225 ft.																																														
<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 370072 Y: 4836467</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																
	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																
	<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/02/1982 Manufacturer's name <u>AERMOTOR</u> Model number <u>A12B-200</u> _ HP <u>2</u> Volts <u>230</u> Length of drop Pipe <u>187</u> ft. Capacity <u>20</u> g.p.m. Type <u>Submersible</u> Material <u>Plastic</u></p>																																																
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																
	<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																																
<p>First Bedrock Aquifer Quat. Buried Artes. Aquifer Last Strat Sand-gray Depth to Bedrock ft.</p>	<p>Well Contractor Certification <u>Jerry's Well Co.</u> <u>90421</u> <u>QUASTAD, S.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																																
<p>County Well Index Online Report</p>	<p style="text-align: center;">174195</p>																																																

Printed 6/29/2008
 IIE-01205-07

Minnesota Unique Well No.

217089

County Martin
 Quad Welcome
 Quad ID 15A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 07/31/2002
 Received Date

Minnesota Statutes Chapter 1031

Well Name VILLAGE OF WELCOME				Well Depth 150 ft.		Depth Completed 150 ft.		Date Well Completed 00/00/1907		
Township Range Dir Section Subsections Elevation 102 32 W 1 DABADD Elevation Method topographic map (+/- 5 feet)				1235 ft. 7.5 minute						
				Drilling Method Cable Tool						
				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.				
				Use Other (specify in remarks)						
				Casing Type Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No				
				No Above/Below ft.						
				Casing Diameter		Weight		Hole Diameter		
				Open Hole from ft. to ft.						
				Screen Make Type						
				Diameter		Slot/Gauze		Length		Set Between
Geological Material				Color		Hardness		From		To
TILL								0		20
SAND & GRAVEL LENSES								20		40
BLUE CLAY				BLUE				40		150
SAND								150		150
				Static Water Level		ft. from		Date Measured		
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.						
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
<i>NO REMARKS</i>				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Located Minnesota Geological Survey				Method Digitized - scale 1:24,000 or larger (Digitizing Table)						
Unique Number Verification N/A				Date N/A						
System UTM - Nad83, Zone15, Meters				X: 369582 Y: 4836085						
				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material						
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No						
				Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller						
First Bedrock				Aquifer Quat. Buried Artes. Aquifer						
Last Strat Sand				Depth to Bedrock ft.						
County Well Index Online Report				217089		Printed 6/29/2008 HE-01205-07				

Minnesota Unique Well No.

217091

County Martin
 Quad Welcome
 Quad ID 15A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/13/1988
 Update Date 08/14/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name	Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation	440 ft.	440 ft.	
102 32 W 1 ADCCDB Elevation Method	7.5 minute topographic map (+/- 5 feet)		
Drilling Method			

Geological Material SOIL YELLOW CLAY BLUE CLAY SAND BLUE CLAY BOULDERS BLUE CLAY SAND & GRAVEL BLUE CLAY & SOME GRAVEL BOULDER BLUE CLAY & SOME GRAVEL SAND & GRAVEL W/CLAY YELLOW SANDY CLAY BLUE SANDY CLAY DIRTY SAND & GRAVEL BLUE CLAY SAND & CLAY BLUE CLAY SAND & CLAY SANDY BLUE CLAY SOFT BLUE CLAY	Color	Hardness	From	To	Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
					Use		
					Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/
					Casing Diameter	Weight	Hole Diameter
					Open Hole	from ft. to ft.	
					Screen		
					Diameter	Slot/Gauze	Length Set Between
					Static Water Level		
					ft. from	Date Measured	
					PUMPING LEVEL (below land surface)		
				ft. after	hrs. pumping	g.p.m.	
				Well Head Completion			
				Pitless adapter manufacturer	Model		
				<input type="checkbox"/> Casing Protection	<input type="checkbox"/> 12 in. above grade		
				<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			

<i>NO REMARKS</i>	Grouting Information	Well Grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey	Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number	Date N/A		
Verification N/A			
System UTM - Nad83, Zone 15, Meters	X: 369487 Y: 4836214		
	Nearest Known Source of Contamination		
	_feet _direction _type		
	Well disinfected upon completion?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Pump <input type="checkbox"/> Not Installed	Date Installed	
	Manufacturer's name	Model number	HP Volts
	Length of drop Pipe	ft. Capacity	g.p.m. Type Material

	Abandoned Wells	Does property have any not in use and not sealed well (s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Variance	Was a variance granted from the MDH for this well?	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Well Contractor Certification		
First Bedrock	Aquifer	<u>Mueller Well Co.</u>	<u>96460</u>
Last Strat Till-gray	Depth to Bedrock ft.	License Business Name	Lic. Or Reg. No. Name of Driller

County Well Index Online Report	217091	Printed 6/29/2008 HE-01205-07
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County Well Index Online Report	240088	Printed 6/29/2008 HE-01205-07
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SITE SUMMARY

Site Name: Winona

Fire Department: Winona Fire Department
451 E. 3rd Street
Winona, MN 55987

Site Contact: Ed Krall, Fire Chief
507-457-8266
ekrall@ci.winona.mn.us

Training Location: Various locations: Central Fire Station, 451 E. 3rd Street, and Technical College, 1250 Homer Road, Winona

Type of foam used in training: AR-AFFF: Ansulite ARC

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AR-AFFF: 45 gallons
Class A: 5 gallons

Nearest surface water: 3rd Street site: Mississippi River, approximately 1/4 mile NE
Homer Road site: unidentified streams and ponds on campus of Technical College

Nearest wetland: 3rd Street site: approximately 1 mile south
Homer Road site: on campus of Technical College

Karst Area: Training site is located in an active karst area

Nearest water well: 3rd Street site: less than 1/2 mile north
Homer Road site: wells on campus

Nearest Wellhead Protection Area: 3rd Street site located in Wellhead Protection Area

SITE RANKING: 21

Winona What's In My Neighborhood Map

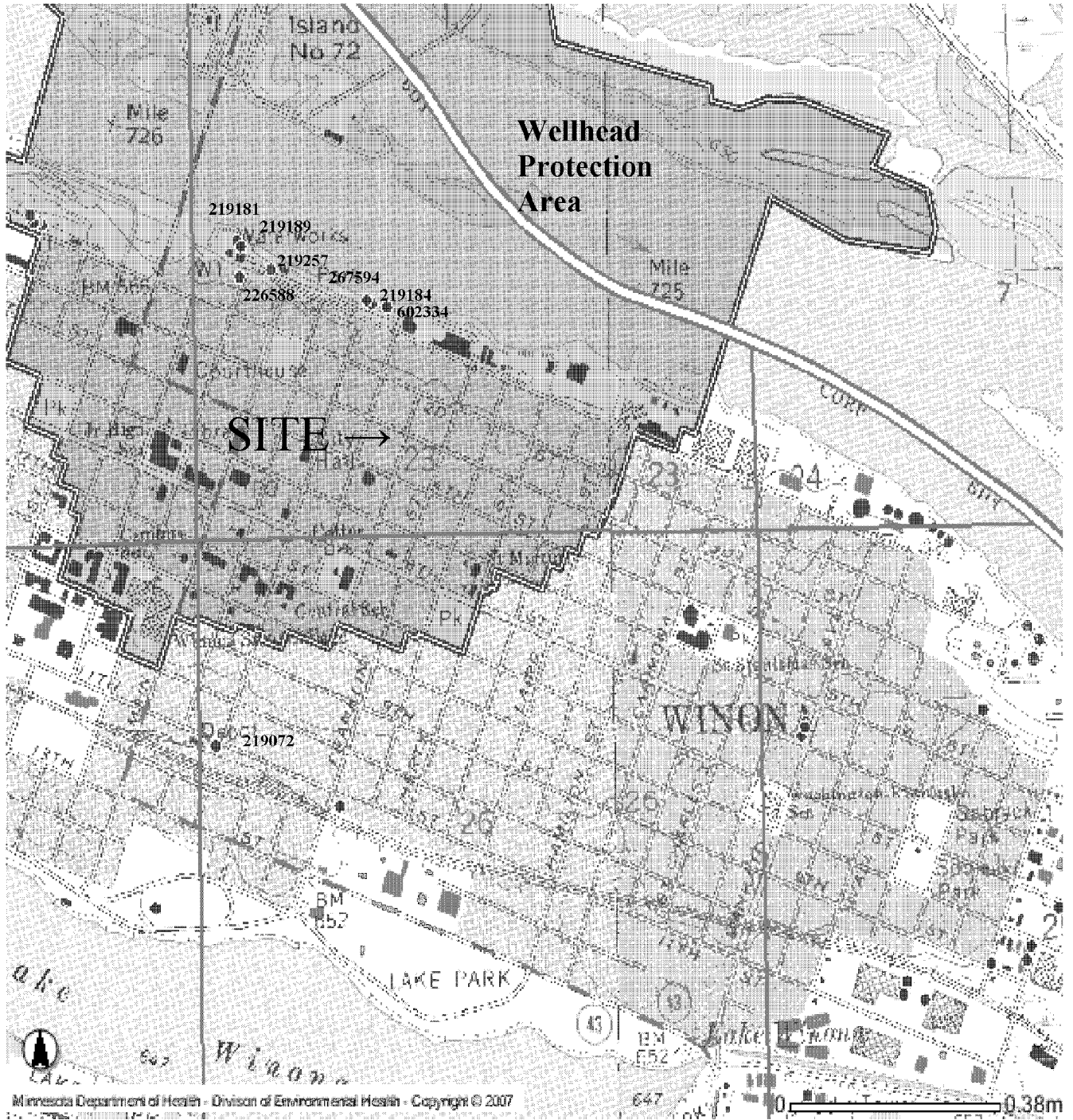


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 Minnesota Pollution Control Agency

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

WINONA 3rd Street CWI Well Map



Minnesota Unique Well No.

219072

County Winona
 Quad Winona West
 Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
 Update Date 09/24/2002
 Received Date

Well Name C.M. & ST. PAUL R.R. CO. Township Range Dir Section Subsections Elevation 655 ft. 107 7 W 26 BCBCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 373 ft.	Depth Completed 373 ft.	Date Well Completed 02/05/1906		
Drilling Method --					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Industrial					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
Casing Diameter Weight Hole Diameter 10 in. to 148 ft. lbs./ft. 8 in. to 222 ft. lbs./ft.					Open Hole from ft. to ft.				
Screen Make Type					Diameter Slot/Gauze Length Set Between				
Geological Material Color Hardness From To SAND & GRAVEL 0 148 SANDSTONE 148 373					Static Water Level -9 ft. from Land surface Date Measured 02/05/1906				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.					Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS CASING: 010 TO 0148;008 TO 0222;006 TO 0373.					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Nearest Known Source of Contamination _feet _direction _type				
Unique Number Verification N/A Date N/A					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
System UTM - Nad83, Zone 15, Meters X: 609001 Y: 4877682					Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 10 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material				
First Bedrock Mt.Simon Aquifer Mt.Simon Last Strat Mt.Simon Depth to Bedrock 148 ft.					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
County Well Index Online Report					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification					License Business Name Lic. Or Reg. No. Name of Driller				
219072					Printed 6/29/2008 HF-01205-07				

Minnesota Unique Well No.

219181

County Winona
 Quad Winona West
 Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 12/28/1989
 Update Date 07/10/2007
 Received Date

Well Name WINONA NO.5					Well Depth 501 ft.		Depth Completed 501 ft.		Date Well Completed 07/19/1924																																																																		
Township Range Dir Section Subsections Elevation 107 7 W 23 CBBABC Elevation Method Calc from DEM (USGS 7.5 min or equiv.)					Drilling Method Cable Tool																																																																						
Well Address WINONA MN 55987 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr><td>SAND & GRAVEL DRIFT</td><td></td><td></td><td>0</td><td>150</td></tr> <tr><td>SAND & GRAVEL DRIFT</td><td></td><td></td><td>150</td><td>160</td></tr> <tr><td>LIGHT SANDROCK</td><td></td><td></td><td>160</td><td>325</td></tr> <tr><td>CLAY</td><td>BLU/RED</td><td></td><td>325</td><td>330</td></tr> <tr><td>SAND ROCK</td><td></td><td></td><td>330</td><td>377</td></tr> <tr><td>SAND SHALE</td><td>RED</td><td></td><td>377</td><td>380</td></tr> <tr><td>SHALE ROCK</td><td>RED</td><td></td><td>380</td><td>414</td></tr> <tr><td>COARSE SANDROCK</td><td></td><td></td><td>414</td><td>450</td></tr> <tr><td>HARD SANDROCK</td><td></td><td></td><td>450</td><td>477</td></tr> <tr><td>SAND SHALE</td><td></td><td></td><td>477</td><td>488</td></tr> <tr><td>GRANITE</td><td>BLACK</td><td>V.HARD</td><td>488</td><td>491</td></tr> <tr><td>GRANITE</td><td>BLACK</td><td>V.HARD</td><td>491</td><td>501</td></tr> </tbody> </table>						Color	Hardness	From	To	SAND & GRAVEL DRIFT			0	150	SAND & GRAVEL DRIFT			150	160	LIGHT SANDROCK			160	325	CLAY	BLU/RED		325	330	SAND ROCK			330	377	SAND SHALE	RED		377	380	SHALE ROCK	RED		380	414	COARSE SANDROCK			414	450	HARD SANDROCK			450	477	SAND SHALE			477	488	GRANITE	BLACK	V.HARD	488	491	GRANITE	BLACK	V.HARD	491	501	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
						Color	Hardness	From	To																																																																		
					SAND & GRAVEL DRIFT			0	150																																																																		
					SAND & GRAVEL DRIFT			150	160																																																																		
					LIGHT SANDROCK			160	325																																																																		
					CLAY	BLU/RED		325	330																																																																		
					SAND ROCK			330	377																																																																		
					SAND SHALE	RED		377	380																																																																		
					SHALE ROCK	RED		380	414																																																																		
					COARSE SANDROCK			414	450																																																																		
HARD SANDROCK			450	477																																																																							
SAND SHALE			477	488																																																																							
GRANITE	BLACK	V.HARD	488	491																																																																							
GRANITE	BLACK	V.HARD	491	501																																																																							
Use Abandoned Status Sealed					Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																																																						
					Casing Diameter 16 in. to 160 ft.		Weight lbs./ft.		Hole Diameter 16 in. to 171 ft. 14 in. to 265 ft.																																																																		
					Open Hole from 160 ft. to 501 ft.																																																																						
					Screen NO Make Type																																																																						
					Diameter		Slot/Gauze		Length		Set Between																																																																
					Static Water Level 13 ft. from Land surface Date Measured 05/14/1924																																																																						
					PUMPING LEVEL, (below land surface) 175 ft. after 6 hrs. pumping 727 g.p.m.																																																																						
					Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																																						
REMARKS CALIPER AND FLOW METERED 3-31-2003. GW!Q NO. 0120. GAMMA LOGGED 8-14-1987. WELL TV BY MDH. SEALED 8/11/2003 BY MARK J TRAUT WELLS, INC. LIC 73646. ORIGINAL SEALING RECORD # H0209448; REPLACED WITH UNIQUE # BY MATCHING WELL RECORDS.					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																						
Located Minnesota Geological Survey Method GPS SA On (averaged)					Nearest Known Source of Contamination _feet _direction _type																																																																						
Unique Number Verification Information from owner Date 06/15/1999					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																						
System UTM - Nad83, Zone15, Meters X: 609063 Y: 4878955					Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 50 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material																																																																						
					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																						
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																						
Borehole Geophysics Yes					Well Contractor Certification McCarthy Well Co. 27022 License Business Name Lic. Or Reg. No. Name of Driller																																																																						
First Bedrock Mt.Simon Aquifer Multiple																																																																											
Last Strat Archean Granite Pluton Depth to Bedrock 150 ft.																																																																											
County Well Index Online Report					219181		Printed 6/29/2008 IIE-01205-07																																																																				

Minnesota Unique Well No.

219184

County Winona
 Quad Winona West
 Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 12/28/1989
 Update Date 05/06/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name WINONA NO.6		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		484 ft.	484 ft.	04/18/1929	
107	7 W 23 CAAB	Drilling Method --			
Elevation Method					
7.5 minute topographic map (+/- 5 feet)					
Well Address WINONA MN 55987		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Abandoned Status Sealed			
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		No Above/Below ft.			
Geological Material		Casing Diameter	Weight	Hole Diameter	
		16 in. to 148 ft.	lbs./ft.		
		Open Hole from 150 ft. to 486 ft.			
		Screen NO Make Type			
		Diameter	Slot/Gauze	Length	Set Between
DRIFT, SAND & GRAVEL					
SANDROCK & SHALE					
SHALE ROCK	BROWN				
SANDROCK & SHALE					
SHALE	BROWN				
LIGHT SANDROCK					
SANDROCK		HARD			
SANDROCK	WHITE	HARD			
SANDROCK	GRAY				
GRANITE					
Color		Hardness			
From		To			
0		148			
148		327			
327		332			
332		379			
379		383			
383		447			
447		461			
461		475			
475		484			
484					
Static Water Level		2 ft. from Land surface Date Measured 00/00/1929			
PUMPING LEVEL (below land surface)		113 ft. after 2 hrs. pumping 1240 g.p.m.			
Well Head Completion		Pitless adapter manufacturer Model			
<input type="checkbox"/> Casing Protection		<input type="checkbox"/> 12 in. above grade			
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS SEALED 6/26/91 BY TRAUT WELLS, LIC. 71536, SEALING RECORD #219184. SEALED DEPTH: 496'. THIS WELL WAS MISTAKENLY ASSIGNED SEALING RECORD # H0011717 (IN CWI). HOWEVER, ORIGINAL DRILLER'S WELL RECORD (SCANNED AT MDH) CLEARLY SHOWS THIS WELL WAS CITY WELL #6, WITH UNIQUE #219184, WHICH IS WHAT THE SEALING RECORD # SHOULD BE. CITY WELL #4 WAS SEALED THE SAME DAY (6/28/91) AND IS THE WELL TO WHICH THE SEALING RECORD #H0011717 SHOULD BE ASSIGNED; MDH HAS NO RECORD OF ANY ASSIGNED UNIQUE # TO CITY WELL #4.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed			
Manufacturer's name		Model number		HP 60 Volts	
Length of drop Pipe _ft.		Capacity _g.p.m		Type Turbine Material	
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)			
Unique Number		Date 10/25/2004			
Verification Information from owner					
System UTM - Nad83, Zone15, Meters		X: 609450 Y: 4878797			
Abandoned Wells Does property have any not in use and not sealed well(s)?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Variance Was a variance granted from the MDH for this well?		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Minnesota Unique Well No.

219257

County Winona
 Quad Winona West
 Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 09/10/1990
 Update Date 05/11/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name WINONA NO.8		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		159 ft.	159 ft.	03/00/1935
107	7 W 23 CBABCD	Elevation Method topographic map (+/- 5 feet)		
Well Address		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
WINONA MN 55987		--	From Ft. to Ft.	
Geological Material		Use Abandoned Status Sealed		
COARSE MUDDY GRAVEL		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/>		
COARSE SAND & GRAVEL		No Above/Below ft.		
SHALE & SAND	BLUE	Casing Diameter	Weight	Hole Diameter
SAND		25 in. to 60 ft.	lbs./ft.	
SAND		18 in. to 70 ft.	lbs./ft.	
FINE SAND		Open Hole from ft. to ft.		
VERY FINE SAND		Screen YES Make Type		
QUICK SAND		Diameter	Slot/Gauze	Length
FINE SAND		0		80
SAND	MEDIUM	Set Between		
COARSE GRAVEL		0 ft. and ft.		
COARSE SAND		Static Water Level		
SHALE & FINE SAND	BLUE	2 ft. from Land surface Date Measured 00/00/1934		
HARDPAN & GRANITE		PUMPING LEVEL (below land surface)		
		3 ft. after 2 hrs. pumping 2800 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
SEALED, SEALING RECORD # 219257 (SAME AS UNIQUE #), 11/9/1988 BY DRUSSELL WELL				
DRILLING, LIC. 85221. SEALED DEPTH: 127'; SEALING DIAM. 24"X18"X12"; TREMMIE				
PIPE PLACED AT 127'. NEAT CEMENT GROUT PUMPED BOTTOM TO TOP. EARL DRUSSELL TOLD				
PETER ZIMMERMAN HE DID NOT HAVE ORIGINAL DEPTH, BUT SOUNDED THE WELL TO 127'.				
SEALING RECORD LISTS LOCATION AS: NE, E, SE, SECTION 22 (T107N, R7W); HOWEVER,				
PETER ZIMMERMAN, EARL DRUSSELL VERIFIED THIS SEALING RECORD IS FOR CITY WELL #8				
WELL SEALED 11-09-1988 BY 85221				
Located Minnesota Geological Survey		Nearest Known Source of Contamination		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		_feet _direction _type		
Unique Number		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Verification Information from owner		Pump <input checked="" type="checkbox"/> Not Installed Date Installed		
System UTM - Nad83, Zone15, Meters X: 609159 Y: 4878883		Manufacturer's name LAYNE Model number __ HP 60 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes		
		<input type="checkbox"/> No		

First Bedrock Mt.Simon Last Strat Mt.Simon	Aquifer Quat. Water Table Aquifer Depth to Bedrock 159 ft.	Well Contractor Certification <u>Layne Well Co.</u> <u>27010</u> <u>NORTHWEST, L.</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	219257	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

226588

County Winona
 Quad Winona West
 Quad ID 46C

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/17/1988
 Update Date 09/24/2002
 Received Date

Minnesota Statutes Chapter 103I

Well Name LAKE CENTER SWITCH		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		70 ft.	70 ft.	03/17/1959
107	7 W 23 CBBDBB	Elevation Method 657 ft. 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method --		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
Use Domestic				
		Casing Type	Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		No Above/Below 0 ft.		
		Casing Diameter	Weight	Hole Diameter
		4 in. to 64 ft.	lbs./ft.	
Open Hole from ft. to ft.				
Screen YES Make Type				
Geological Material		Color	Hardness	From To
MUD				0 20
MUD & PEBBLES				20 42
FINE SAND				42 63
COARSE SAND				63 70
Static Water Level				
8 ft. from Land surface Date Measured 03/17/1959				
PUMPING LEVEL (below land surface)				
ft. after hrs. pumping g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
REMARKS				
DRILLED BY IASSE WELL				
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Date N/A		
Verification Information from owner		X: 609069 Y: 4878864		
System UTM - Nad83, Zone15, Meters				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number __ HP 0 Volts				
Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
First Bedrock		Aquifer Quat. Water Table Aquifer		
Last Strat Sand		Depth to Bedrock ft.		
County Well Index Online Report		226588		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

267594

County Winona
 Quad Winona West
 Quad ID 46C

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 0
 Update Date 04/01/2008
 Received Date

Minnesota Statutes Chapter 103I

<p>Well Name WINONA 4 Township Range Dir Section Subsections Elevation 649 ft. 107 7 W 23 CABA Elevation Method Calc from DEM (USGS 7.5 min or equiv.)</p>	<p>Well Depth 0 ft. Depth Completed 0 ft. Date Well Completed 0 Drilling Method Cable Tool</p>
<p>Geological Material Color Hardness From To</p>	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>
	<p>Use Abandoned Status Inactive</p>
	<p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.</p>
	<p>Casing Diameter Weight Hole Diameter</p>
	<p>Open Hole from ft. to ft.</p>
	<p>Screen Make Type</p> <p>Diameter Slot/Gauze Length Set Between</p>
	<p>Static Water Level ft. from Date Measured</p>
	<p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p>
	<p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>
	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p style="text-align: center;"><i>NO REMARKS</i></p>	<p>Nearest Known Source of Contamination 0 feet direction type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Located Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification Information from owner Date 10/25/2004</p> <p>System UTM - Nad83, Zone15, Meters X: 609435 Y: 4878806</p>	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material</p>
<p>First Bedrock Mt.Simon Aquifer Mt.Simon Last Strat Depth to Bedrock 0 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well (s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller</p>

County Well Index Online Report	267594	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

602334

County Winona
 Quad Winona West
 Quad ID 46C

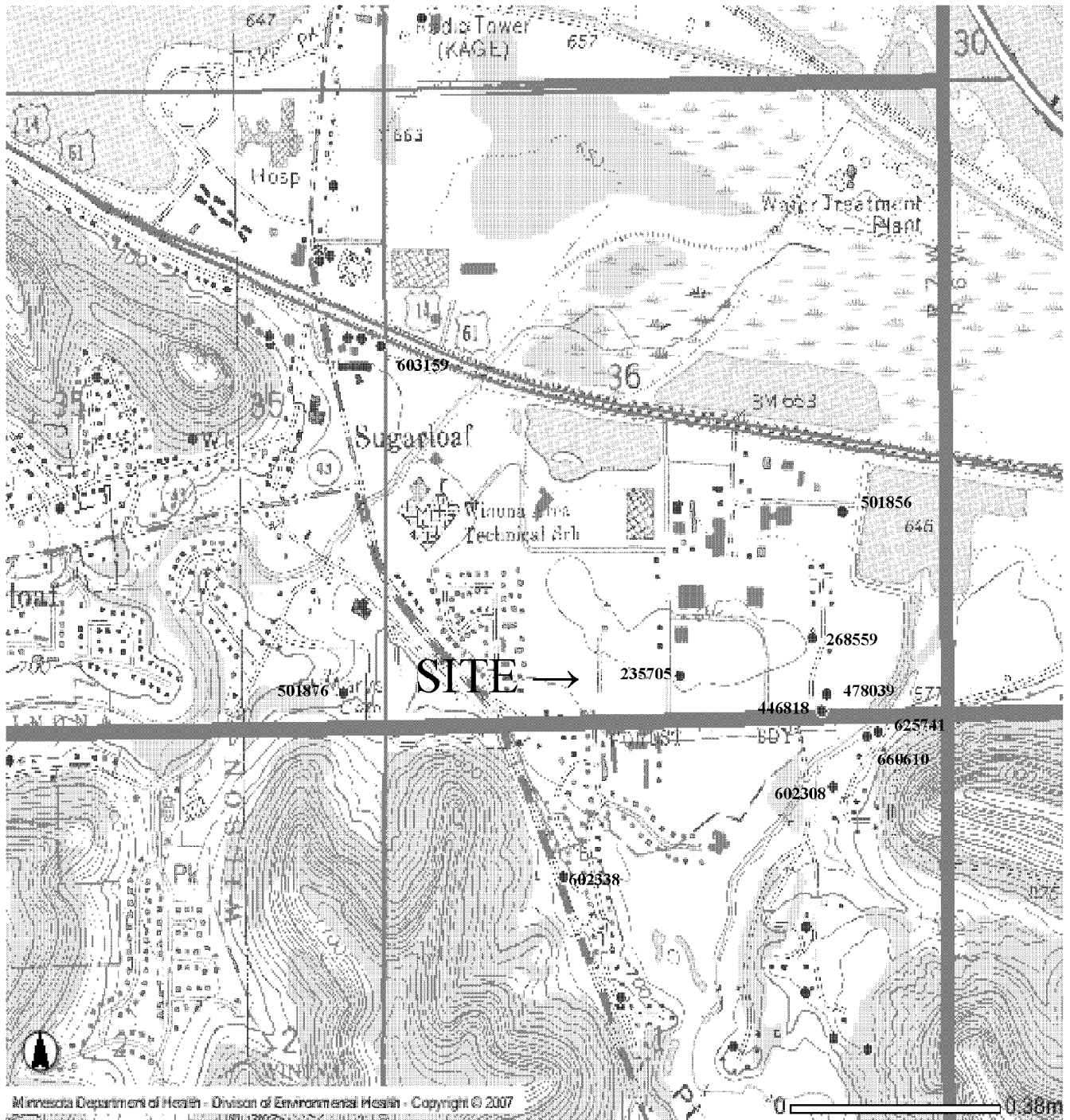
MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/12/2001
 Update Date 01/08/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name CITY OF WINONA		Well Depth 115 ft.	Depth Completed 115 ft.	Date Well Completed 03/18/2000	
Township Range Dir Section Subsections Elevation	647 ft.	Calc from DEM (USGS 7.5 min or equiv.)			
107 7 W 23 CABA	Elevation Method	Drilling Method Cable Tool			
Well Address LEVEE PARK WINONA MN 55987 Geological Material Color Hardness From To DIRT BLACK MEDIUM 0 2 SAND & GRAVEL BROWN HARD 2 115		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Irrigation			
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/>			
		Yes <input type="checkbox"/> No Above/Below ft.			
		Casing Diameter	Weight	Hole Diameter	
		6 in. to 95 ft.	20 lbs./ft.	6 in. to 115 ft.	
		Open Hole from ft. to ft.			
		Screen YES Make JOHNSON Type stainless steel			
		Diameter	Slot/Gauze	Length	Set Between
6	15	20	95 ft. and 115 ft.		
Static Water Level					
16 ft. from Land surface Date Measured 00/31/2000					
PUMPING LEVEL (below land surface)					
24 ft. after 2 hrs. pumping 50 g.p.m.					
Well Head Completion					
Pitless adapter manufacturer Model					
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade					
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
NO REMARKS Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 04/30/2004 System UTM - Nad83, Zone15, Meters X: 609494 Y: 4878789		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Bentonite from to ft. 2 bags			
		Nearest Known Source of Contamination			
		51 feet South East direction Septic tank/drain field type			
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed					
Manufacturer's name Model number IIP Volts					
Length of drop Pipe ft. Capacity g.p.m. Type Material					
Abandoned Wells Does property have any not in use and not sealed well(s)?					
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Well Contractor Certification					
Drussell Well Co. 85221 DRUSSELL D					
License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock		Aquifer			
Last Strat		Depth to Bedrock ft.			
County Well Index Online Report		602334		Printed 6/29/2008 HE-01205-07	

WINONA Homer Road CWI Well Map



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Minnesota Unique Well No.

235705

County Winona
 Quad Winona East
 Quad ID 46D

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 04/17/1988
 Update Date 03/13/2003
 Received Date

Minnesota Statutes Chapter 103I

Well Name DASHER PROPERTY					Well Depth 307 ft.		Depth Completed 307 ft.		Date Well Completed																					
Township Range Dir Section Subsections Elevation 107 7 W 36 DCCBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)																														
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>DRIFT</td> <td></td> <td></td> <td>0</td> <td>82</td> </tr> <tr> <td>EAU CLAIRE</td> <td></td> <td></td> <td>82</td> <td>196</td> </tr> <tr> <td>MT. SIMON</td> <td></td> <td></td> <td>196</td> <td>307</td> </tr> </tbody> </table>						Color	Hardness	From	To	DRIFT			0	82	EAU CLAIRE			82	196	MT. SIMON			196	307	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
						Color	Hardness	From	To																					
					DRIFT			0	82																					
					EAU CLAIRE			82	196																					
					MT. SIMON			196	307																					
					Use																									
					Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																									
					Casing Diameter			Weight		Hole Diameter																				
					5 in. to 98 ft.			lbs./ft.																						
					Open Hole from ft. to ft.																									
Screen Make Type																														
Diameter		Slot/Gauze		Length		Set Between																								
Static Water Level 0 ft. from Land surface Date Measured 06/19/1984																														
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																														
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																														
<p>REMARKS DASHER PROPERTY LOGGED BY MGS GAMMA , ELECTRIC AND CALIPER LOGS AVAILABLE. 6 IN. OPEN HOLE FROM 98 TO 307 FEET. GAMMA LOGGED 6/19/84.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Date N/A Verification N/A System UTM - Nad83, Zone15, Meters X: 611447 Y: 4875142</p>					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
					Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe_ft. Capacity_g.p.m. Type Material																									
					Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																									
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																														
Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller																														
Borehole Geophysics Yes First Bedrock Eau Claire Aquifer Mt.Simon Last Strat Mt.Simon Depth to Bedrock 82 ft.																														

County Well Index Online Report	235705	Printed 6/29/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 12/19/2007
Update Date 0
Received Date

Minnesota Unique Well No.

268559

County Winona
Quad Winona East
Quad ID 46D

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		0 ft.	0 ft.	0
107	7 W 36	Elevation Method		
DDBCCC		659 ft. Calc from DEM (USGS 7.5 min or equiv.)		
Drilling Method		Drilling Fluid		
		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Unknown		
Casing Type		Joint	Drive Shoe?	<input type="checkbox"/> Yes <input type="checkbox"/> No Above/ Below ft.
Casing Diameter		Weight	Hole Diameter	
Open Hole		from ft. to ft.		
Screen		Diameter	Slot/Gauze	Length Set Between
Geological Material	Color	Hardness	From	To
Static Water Level		ft. from Date Measured		
PUMPING LEVEL (below land surface)		ft. after hrs. pumping g.p.m.		
Well Head Completion		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Grouting Information		Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination		0 feet direction type		
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Pump		<input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number HP Volts		
		Length of drop Pipe ft. Capacity g.p.m. Type Material		
Abandoned Wells		Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance		Was a variance granted from the MDH for this well? <input type="checkbox"/>		
		Yes <input type="checkbox"/> No		

NO REMARKS

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A **Date** 12/19/2007
System UTM - Nad83, Zone15, Meters **X:** 611828 **Y:** 4875237

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		268559	Printed 6/29/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/15/1992
Update Date 11/30/2007
Received Date

Minnesota Unique Well No.

446818

County Winona
Quad Winona East
Quad ID 46D

*Minnesota Statutes Chapter
1031*

Well Name PARPART, RUDY				Well Depth 76 ft.		Depth Completed 76 ft.		Date Well Completed 07/24/1990																	
Township Range Dir Section Subsections Elevation 107 7 W 36 DDC				Elevation 659 ft. 7.5 minute topographic map (+/- 5 feet)		Drilling Method Cable Tool																			
Well Address 1470 LORRAI DR WINONA MN 55987 Geological Material <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>BLACK</td> <td>MEDIUM</td> <td>0</td> <td>9</td> </tr> <tr> <td>BROWN</td> <td>HARD</td> <td>9</td> <td>45</td> </tr> <tr> <td>BROWN</td> <td>HARD</td> <td>45</td> <td>76</td> </tr> </tbody> </table>				Color	Hardness	From	To	BLACK	MEDIUM	0	9	BROWN	HARD	9	45	BROWN	HARD	45	76	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Color	Hardness	From	To																		
				BLACK	MEDIUM	0	9																		
				BROWN	HARD	9	45																		
				BROWN	HARD	45	76																		
				Use Domestic																					
				Casing Type Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.																					
				Casing Diameter 4 in. to 72 ft.		Weight 10.79 lbs./ft.		Hole Diameter 4 in. to 76 ft.																	
				Open Hole from ft. to ft.																					
				Screen YES Make JOHNSON Type stainless steel																					
Diameter		Slot/Gauze		Length 4		Set Between 72 ft. and 76 ft.																			
Static Water Level 12 ft. from Land surface Date Measured 07/24/1990																									
PUMPING LEVEL (below land surface) fl. after hrs. pumping g.p.m.																									
Well Head Completion Pitless adapter manufacturer MONITOR Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																									
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
Nearest Known Source of Contamination 26 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																									
Abandoned Wells Does property have any not in use and not sealed well (s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																									

NO REMARKS

Located Method Digitization (Screen) - Map (1:24,000)
Unique Number Date N/A
Verification N/A
System UTM - Nad83, Zone15, Meters X: 611855 Y: 4875054

Minnesota Unique Well No.

501856

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 11/06/1990
 Update Date 11/30/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name HARFS & SONS INC		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		74 ft.	74 ft.	05/30/1984	
107	7 W 36 DDC	Elevation Method topographic map (+/- 5 feet)			
		Drilling Method	Cable Tool		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Commercial			
		Casing Type	Steel (black or low carbon)	Joint Welded Drive Shoe? <input checked="" type="checkbox"/>	
		Yes <input type="checkbox"/> No Above/Below 1 ft.			
		Casing Diameter	Weight	Hole Diameter	
		8 in. to 62 ft.	28.5 lbs./ft.		
		Open Hole from ft. to ft.			
		Screen YES	Make JOHNSON	Type stainless steel	
		Diameter	Slot/Gauze	Length	Set Between
		8	25	14	62 ft. and 74 ft.
		Static Water Level			
		14 ft. from Land surface Date Measured 05/30/1989			
		PUMPING LEVEL (below land surface)			
		22 ft. after 1 hrs. pumping 150 g.p.m.			
		Well Head Completion			
		Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade			
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Geological Material		Color	Hardness	From To	
TOP SOIL		BLACK	MEDIUM	0 4	
SAND		BROWN	MEDIUM	4 74	
Well Address					
1845 RONCO AV					
WINONA MN					
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Grout Material: Bentonite from to ft.			
Located Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination			
Unique Number Date N/A		55 feet W direction Septic tank/drain field type			
Verification N/A		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
System UTM - Nad83, Zone15, Meters X: 611915 Y: 4875556		Pump <input type="checkbox"/> Not Installed Date Installed 06/01/1989			
		Manufacturer's name GOULDS Model number ___ HP 10 Volts			
		Length of drop Pipe 54 ft. Capacity 150 g.p.m			
		Type Submersible Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)?			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
First Bedrock		Drussell Well Co. 85221 DRUSSELL, E.			
Last Strat Sand-brown		License Business Name Lic. Or Reg. No. Name of Driller			
Aquifer Depth to Bedrock ft.					
County Well Index Online Report		501856		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

501876

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 04/15/1992
 Update Date 11/30/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name DIOCESE OF WINONA		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		148 ft.	148 ft.	05/01/1990
107	7 W 35 DDD	Elevation Method topographic map (+/- 5 feet)		
		Drilling Method		
		Drilling Fluid Additive (+ Bentonite)	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Use Domestic		
		Casing Type	Steel (black or low carbon)	Joint Welded Drive Shoe? <input checked="" type="checkbox"/>
		Yes <input type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter	Weight	Hole Diameter
		4 in. to 65 ft.	10.79 lbs./ft.	8 in. to 65 ft.
		4 in. to 148 ft.		
		Open Hole from 65 ft. to 148 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level		
		15 ft. from Land surface Date Measured 05/01/1990		
		PUMPING LEVEL (below land surface)		
		ft. after hrs. pumping g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Grout Material: Neat Cement from 0 to 65 ft. 1.25 yds.		
		Nearest Known Source of Contamination		
		70 feet E direction Septic tank/drain field type		
		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number HP Volts		
		Length of drop Pipe ft. Capacity g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
		Drussell Well Co. 85221 DRUSSELL E.		
		License Business Name Lic. Or Reg. No. Name of Driller		
Well Address				
1190 SUGAR LOAF RD				
WINONA MN 55987				
Geological Material		Color	Hardness	From To
CLAY		BROWN	HARD	0 21
SANDROCK		BROWN	HARD	21 115
SANDROCK		GRAY	HARD	115 148
NO REMARKS				
Located		Method Digitization (Screen) - Map (1:24,000)		
Unique Number		Date N/A		
Verification N/A				
System UTM - Nad83, Zone15,		X: 610479 Y: 4875100		
Meters				
First Bedrock		Aquifer		
Last Strat		Depth to Bedrock 21 ft.		
County Well Index Online Report		501876		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

602308

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 10/29/2001
 Update Date 11/29/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name WEAVER, JAMES		Well Depth 226 ft.	Depth Completed 226 ft.	Date Well Completed 08/14/1997	
Township Range Dir Section Subsections Elevation 673 ft.		Drilling Method Non-specified Rotary			
106 7 W 1 AAB Elevation Method topographic map (+/- 5 feet)					
Well Address 280 PINECREST ST WINONA MN 55987 Geological Material Color Hardness From To CLAY BROWN MEDIUM 0 15 SANDROCK YELLOW HARD 15 81 SANDROCK WHITE HARD 81 90 SHALE GRAY HARD 90 189 SANDROCK WHITE HARD 189 226		Drilling Fluid Other	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Use Domestic			
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/>			
		Yes <input type="checkbox"/> No Above/Below ft.			
		Casing Diameter 4 in. to 190 ft.	Weight 11 lbs./ft.	Hole Diameter 8 in. to 190 ft. 4 in. to 226 ft.	
		Open Hole from 190 ft. to 226 ft.			
		Screen NO	Make	Type	
		Diameter	Slot/Gauze	Length	Set Between
		Static Water Level 3 ft. from Land surface Date Measured 08/14/1997			
		PUMPING LEVEL (below land surface) 6 ft. after 2 hrs. pumping 30 g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS PARCEL #18.012.0020 BLOCK 1, LOT 2, PINECREST AABCDB SEC 1, T 106N, R7W Located Method Digitization (Screen) - Map (1:24,000) Unique Number Date N/A Verification N/A System UTM - Nad83, Zone15, Meters X: 611887 Y: 4874863		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 190 ft. 3.25 yds.			
		Nearest Known Source of Contamination 55 feet South East direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Well Contractor Certification Drussell Well Co. 85221 DRUSSELL, E. License Business Name Lic. Or Reg. No. Name of Driller			
First Bedrock Aquifer Last Strat Depth to Bedrock 15 ft.		County Well Index Online Report 602308 Printed 6/29/2008 HE-01205-07			

Minnesota Unique Well No.

602338

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/12/2001
 Update Date 11/29/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name GALEWSKI, JEAN Township Range Dir Section Subsections Elevation 720 ft. 106 7 W 1 BAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 144 ft. Depth Completed 144 ft. Date Well Completed 06/26/2000 Drilling Method Cable Tool																									
Well Address 1404 FOXCRAFT PL WINONA MN 55987 <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>CLAY AND SAND</td> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>10</td> </tr> <tr> <td>SANDROCK</td> <td>YELLOW</td> <td>HARD</td> <td>10</td> <td>102</td> </tr> <tr> <td>SANDROCK</td> <td>WHITE</td> <td>HARD</td> <td>102</td> <td>139</td> </tr> <tr> <td>SANDROCK AND SHALE</td> <td>BLUE</td> <td>HARD</td> <td>139</td> <td>144</td> </tr> </table>		Geological Material	Color	Hardness	From	To	CLAY AND SAND	BROWN	MEDIUM	0	10	SANDROCK	YELLOW	HARD	10	102	SANDROCK	WHITE	HARD	102	139	SANDROCK AND SHALE	BLUE	HARD	139	144	Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Geological Material	Color	Hardness	From	To																					
		CLAY AND SAND	BROWN	MEDIUM	0	10																					
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		Use Domestic																									
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																									
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Diameter	Slot/Gauze	Length	Set Between																								
Static Water Level 57 ft. from Land surface Date Measured 06/26/2000																											
PUMPING LEVEL (below land surface) 59.5 ft. after 2 hrs. pumping 20 g.p.m.																											
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																											
NO REMARKS	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 85 ft. 1.5 yds.																										
Located Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 611111 Y: 4874635	Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
First Bedrock Aquifer Last Strat Depth to Bedrock 10 ft.	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																										
County Well Index Online Report	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																										
602338	Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
602338	Well Contractor Certification Drussell Well Co. 85221 DRUSSEL, E. License Business Name Lic. Or Reg. No. Name of Driller																										
602338	Printed 6/29/2008 HE-01205-07																										

Minnesota Unique Well No.

603159

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 09/27/2004
 Update Date 08/29/2005
 Received Date

Minnesota Statutes Chapter 1031

<p>Well Name MN DOT</p> <p>Township Range Dir Section Subsections Elevation 659 ft. Calc from DEM (USGS 7.5 min or equiv.)</p> <p>107 7 W 35 ADDA Elevation Method</p>	<p>Well Depth 18 ft. Depth Completed 18 ft. Date Well Completed 10/29/1997</p> <p>Drilling Method Auger (non-specified)</p>																																													
<p>Well Address 1058 HOMER RD WINONA MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>SILTY CLAY</td> <td>BLACK</td> <td>SOFT</td> <td>0</td> <td>3</td> </tr> <tr> <td>SILTY CLAY</td> <td>BLACK</td> <td>SOFT</td> <td>3</td> <td>10</td> </tr> <tr> <td>SANDY CLAY MOIST</td> <td>BLACK</td> <td>SOFT</td> <td>10</td> <td>13</td> </tr> <tr> <td>MOIST SANDY CLAY GRAVEL SAND</td> <td></td> <td></td> <td>13</td> <td>18</td> </tr> </tbody> </table>		Color	Hardness	From	To	SILTY CLAY	BLACK	SOFT	0	3	SILTY CLAY	BLACK	SOFT	3	10	SANDY CLAY MOIST	BLACK	SOFT	10	13	MOIST SANDY CLAY GRAVEL SAND			13	18	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.</p> <p>Use Monitor well</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Casing Diameter</th> <th style="width:30%;">Weight</th> <th style="width:40%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Screen</th> <th style="width:15%;">Make</th> <th style="width:15%;">Type</th> <th style="width:15%;">Diameter</th> <th style="width:15%;">Slot/Gauze</th> <th style="width:15%;">Length</th> <th style="width:15%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter				Screen	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 09/27/2004 System UTM - Nad83, Zone15, Meters X: 610587 Y: 4875974</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																													
	<p>Nearest Known Source of Contamination 0 feet direction type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																													
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>																																													
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<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">603159</p> <p style="text-align: right;">Printed 6/29/2008 IIE-01205-07</p>																																													

Minnesota Unique Well No.

625741

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 06/12/2001
 Update Date 11/29/2007
 Received Date

Minnesota Statutes Chapter 103I

Well Name BERGERSTEDT, NATHAN Township Range Dir Section Subsections Elevation 663 ft. 106 7 W 1 AAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 235 ft. Depth Completed 235 ft. Date Well Completed 05/20/2000 Drilling Method Non-specified Rotary																																														
Well Address 60 PINECREST RD WINONA MN 55987 <table border="0"> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>CLAY</td> <td>BROWN</td> <td>MEDIUM</td> <td>0</td> <td>15</td> </tr> <tr> <td>SANDROCK</td> <td>YELLOW</td> <td>HARD</td> <td>15</td> <td>76</td> </tr> <tr> <td>SANDROCK</td> <td>WHITE</td> <td>HARD</td> <td>76</td> <td>88</td> </tr> <tr> <td>SHALE</td> <td>BLUE</td> <td>HARD</td> <td>88</td> <td>195</td> </tr> <tr> <td>SANDROCK</td> <td>WHITE</td> <td>HARD</td> <td>195</td> <td>235</td> </tr> </table>		Geological Material	Color	Hardness	From	To	CLAY	BROWN	MEDIUM	0	15	SANDROCK	YELLOW	HARD	15	76	SANDROCK	WHITE	HARD	76	88	SHALE	BLUE	HARD	88	195	SANDROCK	WHITE	HARD	195	235	Drilling Fluid Other _____ Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. _____ Use Domestic _____ Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft. _____ <table border="0"> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>4 in. to 191 ft.</td> <td>11 lbs./ft.</td> <td>8 in. to 191 ft.</td> </tr> <tr> <td></td> <td></td> <td>4 in. to 235 ft.</td> </tr> </table> Open Hole from 191 ft. to 235 ft. <table border="0"> <tr> <td>Screen NO</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> <td>Set Between</td> </tr> </table> Static Water Level 8 ft. from Land surface Date Measured 05/20/2000 PUMPING LEVEL (below land surface) 8 ft. after 2 hrs. pumping 25 g.p.m. Well Head Completion Pitless adapter manufacturer _____ Model _____ <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	Casing Diameter	Weight	Hole Diameter	4 in. to 191 ft.	11 lbs./ft.	8 in. to 191 ft.			4 in. to 235 ft.	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between
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NO REMARKS Located _____ Method Digitization (Screen) - Map (1:24,000) Unique Number _____ Date N/A Verification N/A System UTM - Nad83, Zone15, Meters X: 612017 Y: 4875001		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 191 ft. 3 yds. Nearest Known Source of Contamination 23 feet W direction Septic tank/drain field type _____ Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed _____ Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of drop Pipe _____ ft. Capacity _____ g.p.m. Type _____ Material _____																																														
First Bedrock _____ Aquifer _____ Last Strat _____ Depth to Bedrock 15 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Contractor Certification Drussell Well Co. 85221 DRUSSUEL, D. License Business Name Lic. Or Reg. No. Name of Driller																																														
County Well Index Online Report		625741 Printed 6/29/2008 HE-01205-07																																														

Minnesota Unique Well No.

660610

County Winona
 Quad Winona East
 Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 05/13/2002
 Update Date 03/11/2005
 Received Date

Well Name NAGLE, CHUCK Township Range Dir Section Subsections Elevation 664 ft. 106 7 W 1 AAB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 240 ft.		Depth Completed 240 ft.		Date Well Completed 10/20/2001																									
					Drilling Method Air Rotary																													
Well Address 40 PINECREST WINONA MN 55987 Geological Material <table style="width:100%; border:none;"> <tr> <td>Color</td> <td>Hardness</td> <td>From</td> <td>To</td> </tr> <tr> <td>CLAY BROWN</td> <td>MEDIUM</td> <td>0</td> <td>13</td> </tr> <tr> <td>SANDROCK YELLOW</td> <td>HARD</td> <td>13</td> <td>78</td> </tr> <tr> <td>SANDROCK WHITE</td> <td>HARD</td> <td>78</td> <td>90</td> </tr> <tr> <td>SHALE BLUE</td> <td>HARD</td> <td>90</td> <td>195</td> </tr> <tr> <td>SANDROCK WHITE</td> <td>HARD</td> <td>195</td> <td>240</td> </tr> </table>					Color	Hardness	From	To	CLAY BROWN	MEDIUM	0	13	SANDROCK YELLOW	HARD	13	78	SANDROCK WHITE	HARD	78	90	SHALE BLUE	HARD	90	195	SANDROCK WHITE	HARD	195	240	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
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NO REMARKS Located Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Other, note in remarks Date N/A System UTM - Nad83, Zone15, Meters X: 611985 Y: 4874989						Nearest Known Source of Contamination 60 feet N direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																												
Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																												
Well Contractor Certification Drussell Well Co. 85221 DRUSSELL D. License Business Name Lic. Or Reg. No. Name of Driller						County Well Index Online Report																												
First Bedrock Iron-ton-Galesville Aquifer Mt.Simon Last Strat Mt.Simon Depth to Bedrock 13 ft.						660610		Printed 6/29/2008 HE-01205-07																										

SITE SUMMARY

Site Name: Winsted

Fire Department: Winsted Fire Department
241 1st Street N.
Winsted, MN 55395

Site Contact: Chad Stender, 1st Assistant Fire Chief
320-485-2316
firechief@winsted.mn.us

Training Location: Baker Avenue and 2nd Street S., Winsted

Type of foam used in training: Other: Aqua Eco

Foam training frequency: Bi-Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: Other: 1 stick
Class A: 5 gallons

Nearest surface water: Intermittent stream less than 1/8 mile south

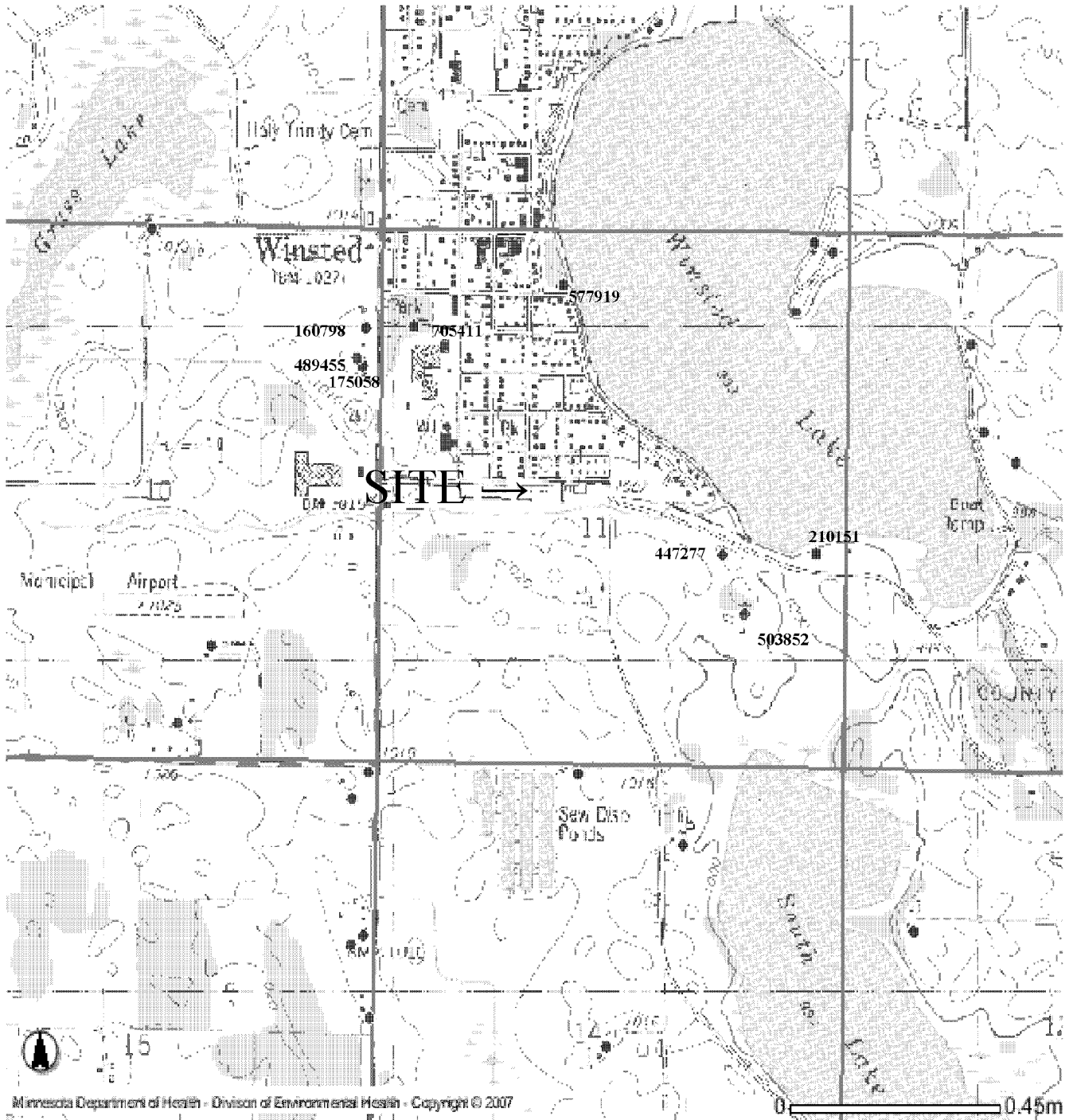
Nearest wetland: Less than 1/8 mile south

Nearest water well: 1/4 to 1/2 mile southeast

Nearest Wellhead Protection Area: More than 1 mile

SITE RANKING: 9

WINSTED CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Winsted What's In My Neighborhood Map

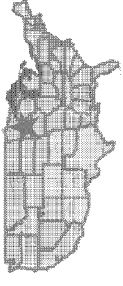
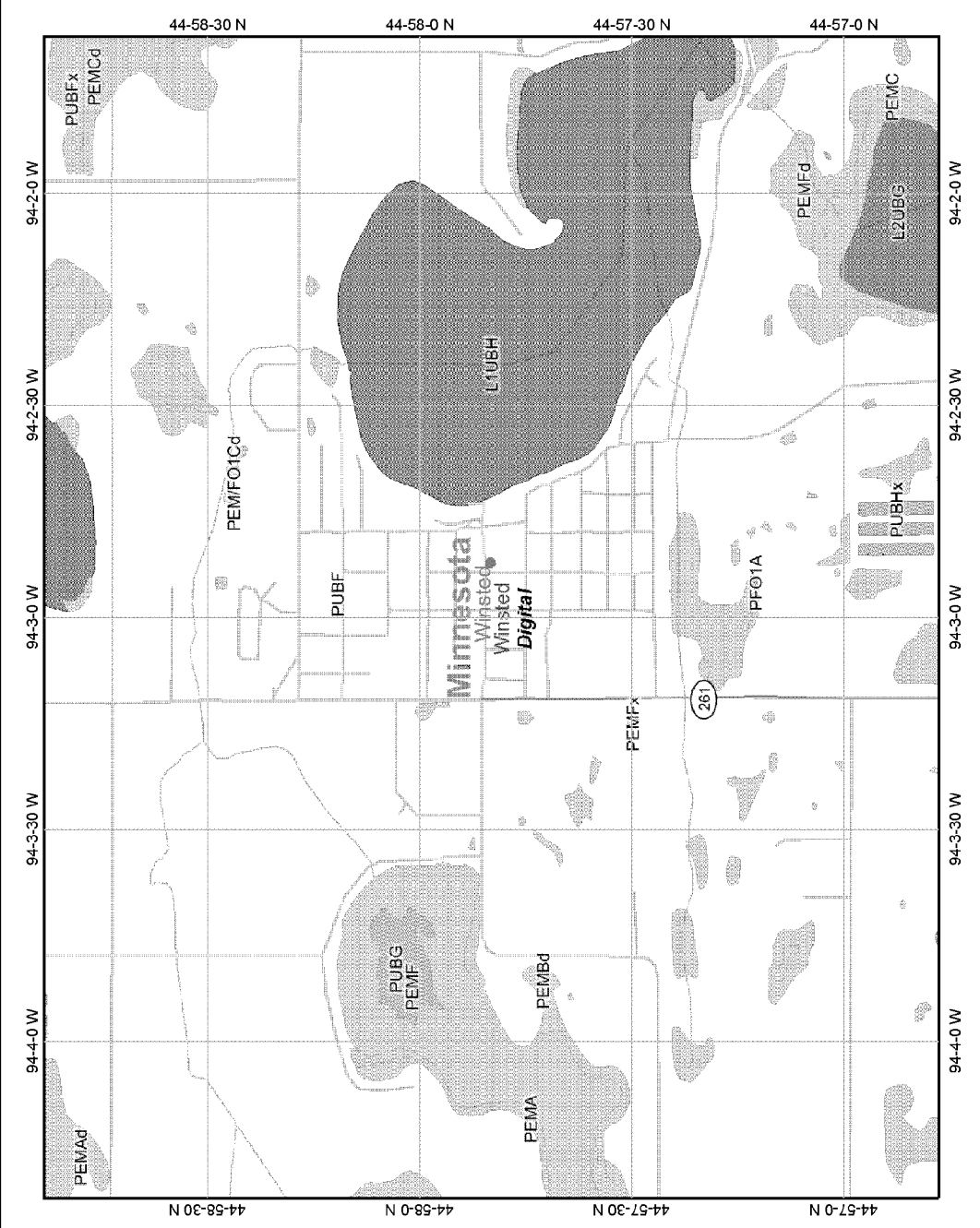


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfill
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Winsted Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:27,356

Map center: 44° 57' 50" N, 94° 3' 0" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

160798

County McLeod
 Quad Winsted
 Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 12/29/2005
 Received Date

<p>Well Name HERTEL, JIM Township Range Dir Section Subsections Elevation 1024 ft. 117 27 W 10 AADDAB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 133 ft.</td> <td style="width:33%;">Depth Completed 133 ft.</td> <td style="width:33%;">Date Well Completed 08/06/1979</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 133 ft.	Depth Completed 133 ft.	Date Well Completed 08/06/1979	Drilling Method Non-specified Rotary																																																						
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Minnesota Unique Well No.

175058

County McLeod
 Quad Winsted
 Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
 Update Date 12/29/2005
 Received Date

<p>Well Name MILLERBREND, CHARLES Township Range Dir Section Subsections Elevation 1022 ft. 117 27 W 10 ADAABA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 139 ft.</td> <td style="width:33%;">Depth Completed 139 ft.</td> <td style="width:33%;">Date Well Completed 10/10/1980</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 139 ft.	Depth Completed 139 ft.	Date Well Completed 10/10/1980	Drilling Method Non-specified Rotary																																																									
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<p>REMARKS 0.8 MILE SOUTH OF INTERSECTION OF HWY 261 & CO. RD. 6 ON 261</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A Verification Information from neighbor System UTM - Nad83, Zone15, Meters X: 416872 Y: 4979093</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Grout Material: Cuttings from 0 to 70 ft. 0.5 yrcs.</td> </tr> <tr> <td>Nearest Known Source of Contamination 75 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/13/1980 Manufacturer's name AERMOTOR Model number SD5012 HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity g.p.m Type Submersible Material Galvanized</td> </tr> <tr> <td>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Well Contractor Certification Mattson Well Co. 86108 OESTRIECH, D. License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Cuttings from 0 to 70 ft. 0.5 yrcs.	Nearest Known Source of Contamination 75 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump <input checked="" type="checkbox"/> Not Installed Date Installed 10/13/1980 Manufacturer's name AERMOTOR Model number SD5012 HP 0.5 Volts 230 Length of drop Pipe 72 ft. Capacity g.p.m Type Submersible Material Galvanized	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Well Contractor Certification Mattson Well Co. 86108 OESTRIECH, D. License Business Name Lic. Or Reg. No. Name of Driller																																																						
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Minnesota Unique Well No.

210151

County McLeod
 Quad Winsted
 Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
 Update Date 12/29/2005
 Received Date

Well Name STERNER, JERRY Township Range Dir Section Subsections Elevation 117 27 W 11 DAACDA Elevation Method 1002 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 155 ft. Depth Completed 154 ft. Date Well Completed 06/01/1967
Drilling Method -- Drilling Fluid -- Use Domestic Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Above/Below ft. <input type="checkbox"/> Yes <input type="checkbox"/> No Casing Diameter 4 in. to 151 ft. Weight lbs./ft. Hole Diameter Open Hole from ft. to ft. Type stainless steel Screen YES Make Length Set Between 4 50 3 151 ft. and 154 ft.		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No Joint No Information Drive Shoe? <input type="checkbox"/> Yes
Well Address WINSTED MN 55395 Geological Material TOP SOIL SANDY CLAY SAND & GRAVEL SANDY CLAY SANDY CLAY SANDY CLAY SANDY CLAY SANDY CLAY LENSED WITH SAND SANDY CLAY SAND SANDY CLAY		Hardness 0 1 18 23 76 113 129 137 149 155 1 18 23 76 113 129 137 149 155 HARD SOFT HARD HARD HARD VARIED BLUE
Color BLACK YELLOW BROWN BLUE BLUE BLUE BLUE BLUE VARIED BLUE		Static Water Level 38 ft. from Land surface Date Measured 06/01/1967 PUMPING LEVEL (below land surface) 45 ft. after hrs. pumping 100 g.p.m.
Well Head Completion Pitless adapter manufacturer DUPLEX Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone15, Meters		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
NO REMARKS		

<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed <u>11/10/1975</u> Manufacturer's name <u>BERKLEY</u> Model number <u>4AM15</u> HP <u>0.75</u> Volts <u>230</u> Length of drop Pipe <u>63</u> ft. Capacity <u>g.p.m</u> Type <u>Submersible</u> Material <u>Steel (black or low carbon)</u></p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification Fredrickson's <u>08317</u> <u>SCHROEDER, F.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>210151</p>	
<p>Printed <u>6/29/2008</u> HE-01205-07</p>	

First Bedrock Aquifer Quat. Buried Artes. Aquifer
Last Strat Clay & sand-gray Depth to Bedrock ft.

County Well Index Online Report

Minnesota Unique Well No.

447277

County McLeod
 Quad Winsted
 Quad ID 107A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 07/18/1991
 Update Date 12/29/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name GUTZMAN, RODNEY				Well Depth 130 ft.		Depth Completed 130 ft.		Date Well Completed 07/25/1988	
Township Range Dir Section Subsections Elevation 117 27 W 11 DBADDB Elevation Method topographic map (+/- 5 feet)				1011 ft. 7.5 minute					
				Drilling Method Non-specified Rotary					
				Drilling Fluid Additive (+ Bentonite)		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Use Domestic					
				Casing Type Plastic Joint Glued Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 6 ft.					
				Casing Diameter 4 in. to 126 ft.		Weight lbs./ft.		Hole Diameter 6.25 in. to 130 ft.	
				Open Hole from ft. to ft.					
				Screen YES		Make JOHNSON		Type stainless steel	
				Diameter 4		Slot/Gauze 10		Length 4	
				Set Between 126 ft. and 130 ft.					
Geological Material				Color		Hardness		From To	
CLAY				YELLOW				0 20	
CLAY				BLUE				20 118	
WATER SAND								118 130	
				Static Water Level 40 ft. from Land surface Date Measured 07/25/1988					
				PUMPING LEVEL (below land surface) 45 ft. after 1 hrs. pumping 100 g.p.m.					
				Well Head Completion Pitless adapter manufacturer WHITEWATER Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 6 to 30 ft. 0.2 yds. Grout Material: Cuttings from 30 to 100 ft. 0.6 yds.					
Located Minnesota Geological Survey				Method Digitized - scale 1:24,000 or larger (Digitizing Table)					
Unique Number				Date N/A					
Verification Information from owner									
System UTM - Nad83, Zone15, Meters				X: 418109 Y: 4978524					
				Nearest Known Source of Contamination 70 feet E direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/27/1988 Manufacturer's name AERMOTOR Model number SD1250 HP 0.5 Volts 230 Length of drop Pipe 54 ft. Capacity 12 g.p.m. Type Submersible Material Galvanized					
				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Well Contractor Certification Mattson Well Co. 86108 OESTRIECH, D. License Business Name Lic. Or Reg. No. Name of Driller					
First Bedrock				Aquifer Quat. Buried Artes. Aquifer					
Last Strat Sand				Depth to Bedrock ft.					

County Well Index Online Report	447277	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

489455

County McLeod
 Quad Winsted
 Quad ID 107A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 03/26/1992
 Update Date 12/29/2005
 Received Date

Minnesota Statutes Chapter 1031

Well Name MILLERBERND, RALPH		Well Depth 130 ft.	Depth Completed 130 ft.	Date Well Completed 10/30/1991	
Township Range Dir Section Subsections Elevation 117 27 W 10 AADDDCC		Elevation Method 7.5 minute topographic map (+/- 5 feet)			
Drilling Method Non-specified Rotary					
Well Address 261 HY WINSTED MN Geological Material CLAY Color Hardness From To CLAY YELLOW 0 25 CLAY BLUE 25 75 SAND & CLAY 75 90 CLAY 90 118 SAND 118 130		Drilling Fluid Qwik gel	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic			
		Casing Type Plastic Joint Glued Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below -6 ft.			
		Casing Diameter 4 in. to 126 ft.	Weight lbs./ft.	Hole Diameter 6.25 in. to 130 ft.	
		Open Hole from ft. to ft.			
		Screen YES	Make JOHNSON	Type stainless steel	
		Diameter 3	Slot/Gauze 12	Length 4	Set Between 126 ft. and 130 ft.
		Static Water Level 42 ft. from Land surface Date Measured 10/30/1991			
		PUMPING LEVEL (below land surface) 50 ft. after 1 hrs. pumping 80 g.p.m.			
		REMARKS		Well Head Completion Pitless adapter manufacturer WHITEWATER Model B432164 <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone15, Meters Date N/A X: 416852 Y: 4979117		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 6 to 30 ft. 0.1 yds. Grout Material: Cuttings from 30 to ft. 0			
		Nearest Known Source of Contamination 100 feet South East direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/15/1991 Manufacturer's name AERMOTOR Model number SD1250 HP 0.5 Volts 230 Length of drop Pipe 60 ft. Capacity 12 g.p.m. Type Submersible Material Stainless Steel			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Last Strat Sand		Well Contractor Certification Mattson Well Co. 86108 OESTREICH, D. License Business Name Lic. Or Reg. No. Name of Driller			
Aquifer Quat. Buried Artes. Aquifer		Depth to Bedrock ft.			

County Well Index Online Report	489455	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

503852

County McLeod
 Quad Winsted
 Quad ID 107A

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 07/18/1991
 Update Date 12/29/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name GUTZMAN, RODNEY		Well Depth 130 ft.	Depth Completed 130 ft.	Date Well Completed 09/25/1989
Township Range Dir Section Subsections Elevation 117 27 W 11 DACCAC Elevation Method		1009 ft. 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method Non-specified Rotary		
		Drilling Fluid Additive (+ Bentonite)	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below -6 ft.		
		Casing Diameter 4 in. to 126 ft.	Weight lbs./ft.	Hole Diameter 6.25 in. to 130 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
		Diameter 4	Slot/Gauze 10	Length 4
		Set Between 126 ft. and 130 ft.		
Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	25
CLAY	BLUE		25	110
WATER SAND			110	130
		Static Water Level 28 ft. from Land surface Date Measured 09/25/1989		
		PUMPING LEVEL (below land surface) 50 ft. after 1 hrs. pumping 50 g.p.m.		
		Well Head Completion Pitless adapter manufacturer WIIITEWATER Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Grout Material: Neat Cement from 6 to 30 ft. 0.1 yrds.		
Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Grout Material: Cuttings from 30 to 90 ft. 0.3 yrds.		
Unique Number		Nearest Known Source of Contamination		
Verification Information from owner		80 feet N direction Septic tank/drain field type		
System UTM - Nad83, Zone15.		Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Meters X: 418185 Y: 4978346		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/28/1989		
		Manufacturer's name AERMOTOR Model number SD20100		
		HP 1 Volts 230		
		Length of drop Pipe 72 ft. Capacity 25 g.p.m		
		Type Submersible Material Galvanized		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification		
First Bedrock	Aquifer Quat. Buried Artes. Aquifer	Mattson Well Co.	86108	OESTERIECH, D
Last Strat Sand	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller		

County Well Index Online Report	503852	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

577919

County McLeod
 Quad Winsted
 Quad ID 107A

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 10/17/1996
 Update Date 01/04/2006
 Received Date

Minnesota Statutes Chapter 1031

Well Name WINSTED LAKE PART		Well Depth 1012 ft.	Depth Completed 120 ft.	Date Well Completed 05/31/1996
Township Range Dir Section Subsections Elevation 117 27 W 11 BAACCB		7.5 minute topographic map (+/- 5 feet)	Drilling Method Non-specified Rotary	
Well Address 113 1ST ST S WINSTED MN		Drilling Fluid Qwik gel		
		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Domestic		
		Casing Type Plastic Joint Glued <input type="checkbox"/> Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
		Casing Diameter 4 in. to 114 ft.	Weight lbs./ft.	Hole Diameter 6.75 in. to 120 ft.
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type stainless steel		
Geological Material		Color	Hardness	From To
CLAY	YELLOW		0 20	
CLAY	BLUE		20 100	
SAND			100 120	
		Static Water Level 25 ft. from Land surface Date Measured 05/31/1996		
		PUMPING LEVEL (below land surface) 48 ft. after 1 hrs. pumping 100 g.p.m.		
		Well Head Completion Pitless adapter manufacturer WHITEWATER Model SNAPPY <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: High solids bentonite from 6 to 30 ft.		
Located Minnesota Geological Survey		Method Digitization (Screen) - Map (1:24,000)		
Unique Number		Date N/A		
Verification Address verification		System UTM - Nad83, Zone 15, Meters		
		X: 417563 Y: 4979337		
		Nearest Known Source of Contamination 60 feet E direction Body of water type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed 06/12/1996 Manufacturer's name AERMOTOR Model number A50B150 HP 1.5 Volts 230 Length of drop Pipe 60 ft. Capacity 50 g.p.m. Type Submersible Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock		Well Contractor Certification		
Last Strat Sand	Aquifer Quat. Buried Artes. Aquifer	<u>Mattson Well Co.</u>	<u>86108</u>	<u>OESTREICH, D.</u>
	Depth to Bedrock ft.	License Business Name Lic. Or Reg. No. Name of Driller		

County Well Index Online Report	577919	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

705411

County McLeod
 Quad Winsted
 Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 07/21/2004
 Update Date 01/20/2006
 Received Date 06/15/2004

Well Name WINSTED TW				Well Depth 583 ft.		Depth Completed 583 ft.		Date Well Completed 04/02/2004	
Township Range Dir Section Subsections Elevation 117 27 W 11 BBCACC Elevation Method 7.5 minute topographic map (~/- 5 feet)									
Geological Material				Color		Hardness		From To	
TOP SOIL				BLACK		SOFT		0 2	
CLAY/GRAVEL				GRAY		MEDIUM		0 113	
CLAY/GRAVEL				BROWN		SOFT		2 25	
CLAY/GRAVEL/SAND				BROWN		SOFT		25 95	
SAND/GRAVEL				BROWN		SOFT		95 105	
CLAY/GRAVEL GRANITE ROCK @105				RED/WHT		HARD		105 113	
GRANITE ROCK				PNK/WHT		HARD		113 115	
SANDY CLAY				GRAY		MEDIUM		115 117	
SAND/GRAVEL				BROWN		MEDIUM		117 125	
SAND				BROWN		MEDIUM		125 130	
SAND/GRAVEL				BROWN		MEDIUM		130 190	
SAND/GRAVEL				GRAY		MEDIUM		190 195	
CLAY/SILTY SMEARY				GRAY		SOFT		195 249	
CLAY/SILTY SMEARY				GRAY		SOFT		249 258	
CLAY/SILTY SMEARY				GRAY		SOFT		258 267	
SHALE WHT/GRN/BRN						SOFT		267 330	
SHALE				GRN/BRN		HARD		330 345	
SHALE				ORN/RED		M.SOFT		345 368	
SHALE				LT. GRN		MEDIUM		368 370	
SHALE				RED/ORN		M.HARD		370 379	
SHALE				LT. GRN		MEDIUM		379 449	
SANDSTONE LT. GRN/YEL 10-30 SLT								449 453	
SANDSTONE LT. GRN/YEL 10-30 SLT								453 581	
SHALE LT. GRN/WHT						HARD		581 583	
REMARKS HOLE FILLED IN TO 504' WITH SAND. M.G.S. NO. 4314. TO 345 FT. GAMMA LOGGED BY DOWNHOLE GEOPHYSICS. WELL SEALED 3-9-2005 BY MARK J. TRAUT WELLS, INC. SEALING NO. H-232124. THIS WAS A TEST WELL FOR THE CITY OF WINSTED.									
Located Minnesota Geological Survey				Method Digitization (Screen) - Map (1:24,000)					
Unique Number Verification Information from owner				Date 01/04/2006					
System UTM - Nad83, Zone15, Meters				X: 417047 Y: 4979213					
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Well Contractor Certification Traut, Mark J. Wells 73646 POHLKAMP, D. License Business Name Lic. Or Reg. No. Name of Driller									
County Well Index Online Report				705411			Printed 6/29/2008 IIE-01205-07		

SITE SUMMARY

Site Name: Duluth Airport

Fire Department: 148th Minnesota Air National Guard
Duluth, MN

Site Contact: Dave Dodge, Fire Chief
218-788-7273
david.dodge@mndulu.ang.af.mil
John Farnham, Senior Airfield Firefighter
218-788-7434

Training Location: No current training with foam. For the purpose of this assessment, the entire airport was treated as the Site.

Type of foam used in training: No foam used in training
Chemguard and 3M AFFF used in fire response

Foam training frequency: Not Applicable

Foam use per training event: Not Applicable

Spent foam destination: Unknown

Annual foam use: AFFF - up to 100 gallons

Nearest surface water: Unnamed creeks at the north and east sides of the air field

Nearest wetland: Along north and east sides of airport

Nearest water well: on airport grounds

Nearest Wellhead Protection Area: None within one mile

SITE RANKING: 23

Duluth Intl. Airport *What's In My Neighborhood* Map

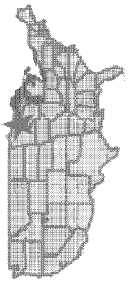
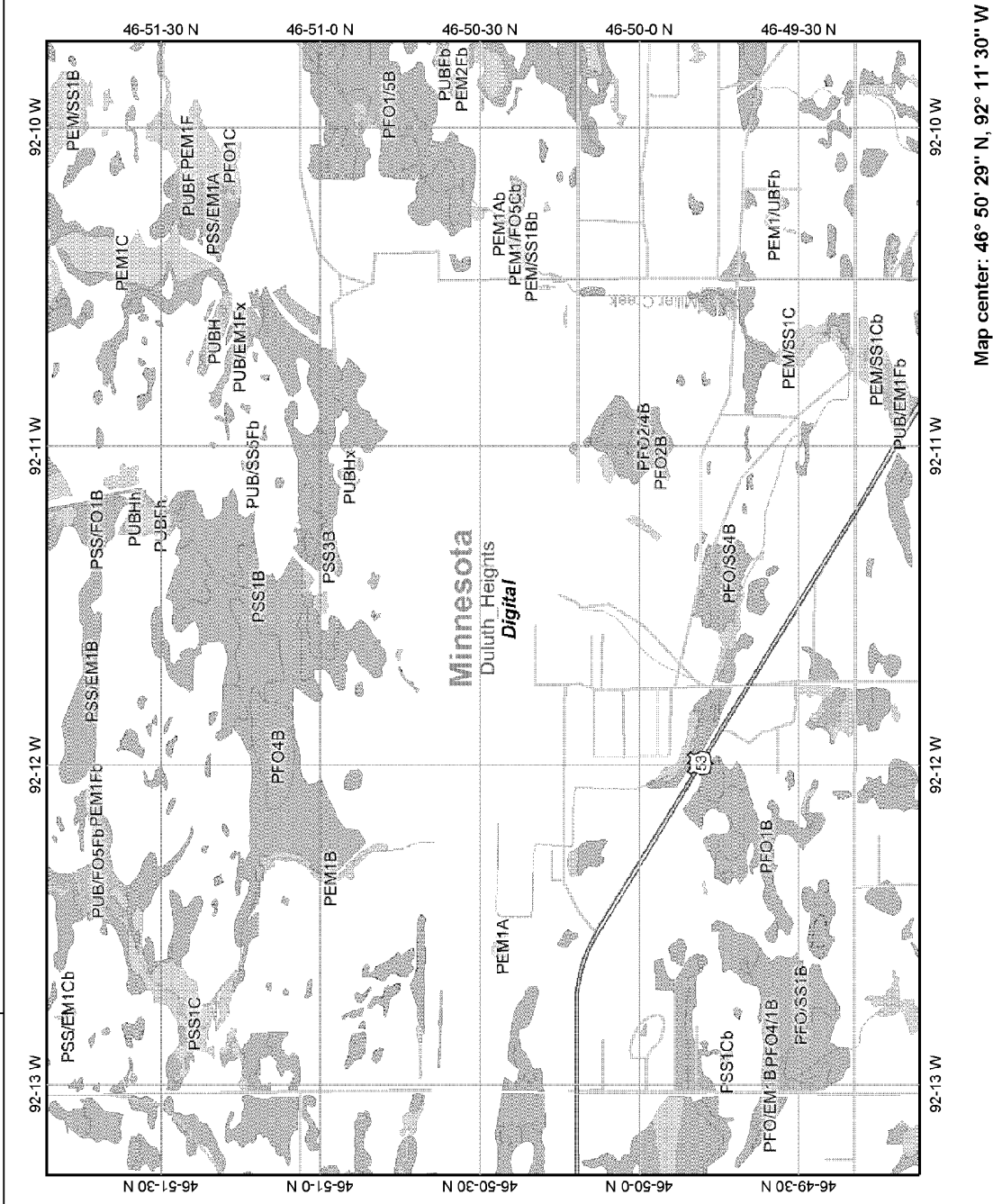


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Duluth Airport Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:35,457

Map center: 46° 50' 29" N, 92° 11' 30" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

486834

County St. Louis
 Quad Duluth Heights
 Quad ID 244C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 05/04/1993
 Update Date 11/20/2007
 Received Date

Well Name VAN GUILDER, JAMES Township Range Dir Section Subsections Elevation 1413 ft. 51 15 W 35 CCCBAC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 29 ft.	Depth Completed 29 ft.	Date Well Completed 06/10/1992
		Drilling Method Dug		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 1 ft.		
		Casing Diameter	Weight	Hole Diameter
		Open Hole from ft. to ft.		
		Screen YES Make Type slotted pipe		
		Diameter	Slot/Gauze	Length
		Set Between 21 ft. and 28 ft.		
Well Address 4718 LAVAQUE RD DULUTH MN 55811				
Geological Material TOP SOIL, GRAVEL MIXED CLAY & GRAVEL		Color BROWN	Hardness SOFT MEDIUM	From 0 2 2
		To 2 29		
		Static Water Level 2 ft. from Land surface Date Measured 06/27/1992		
		PUMPING LEVEL (below land surface) 20 ft. after 2 hrs. pumping 15 g.p.m.		
		Well Head Completion Pitless adapter manufacturer MAASS Model 6J1 <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS 2 INCHES BENTONITE CAP APPLIED OVER PETRO-MAT. 1 INCH CLAY CAP ON TOP.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Bentonite from to ft		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination 200 feet N direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification Address verification System UTM - Nad83, Zone15, Meters X: 559768 Y: 5189068		Pump <input type="checkbox"/> Not Installed Date Installed 07/01/1992 Manufacturer's name STA-RITE Model number 10P4C02T IIP 0.5 Volts 230 Length of drop Pipe 20 ft. Capacity 10 g.p.m Type Submersible Material Plastic		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Aqua Systems 69438 MADISON, D. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Last Strat Pebbly sand/silt/clay		Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		
County Well Index Online Report		486834		Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.

690500

County St. Louis
 Quad Duluth Heights
 Quad ID 244C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date
 Update Date 11/20/2007
 Received Date 12/18/2003

Well Name VAN GUILDER, JAMES Township Range Dir Section Subsections Elevation 1414 ft. 51 15 W 35 CCCCCA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 325 ft.	Depth Completed 325 ft.	Date Well Completed 11/20/2003								
Drilling Method Multiple methods used		Drilling Fluid Water										
Well Hydrofractured? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No From 50 Ft. to 325 Ft.		Use Domestic										
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No Above/Below ft.										
Casing Diameter 6 in. to 24 ft.		Weight 19.45 lbs./ft.	Hole Diameter 6 in. to 24 ft. 6 in. to 325 ft.									
Open Hole from 24 ft. to 325 ft.												
<table border="1"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Screen NO	Make	Type					
Screen NO	Make	Type										
<table border="1"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Diameter	Slot/Gauze	Length	Set Between				
Diameter	Slot/Gauze	Length	Set Between									
Static Water Level 2.7 ft. from Land surface Date Measured 11/10/2003												
PUMPING LEVEL (below land surface) 120 ft. after 4 hrs. pumping 2 g.p.m.												
Well Head Completion Pitless adapter manufacturer MONITOR Model SNAPPY <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)												
REMARKS OLD WELL SEALED H-200691 NOT SEALED.												
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 24 ft. 2 bags												
Nearest Known Source of Contamination 50 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ IIP __ Volts Length of drop Pipe __ft. Capacity __g.p.m. Type Material												
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Well Contractor Certification Petersen Well Co. 69183 PETERSEN, D. License Business Name Lic. Or Reg. No. Name of Driller												
First Bedrock Duluth Complex Aquifer Duluth Complex Last Strat Duluth Complex Depth to Bedrock 22 ft.		County Well Index Online Report										
		690500		Printed 6/15/2008 HE-01205-07								

Minnesota Unique Well No.

747232

County St. Louis
 Quad Duluth Heights
 Quad ID 244C

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 03/06/2007
 Update Date 11/15/2007
 Received Date 12/06/2006

Minnesota Statutes Chapter 103I

Well Name MW-13		Well Depth 19 ft.	Depth Completed 18 ft.	Date Well Completed 10/13/2006
Township Range Dir Section Subsections Elevation 50 15 W 2 DDABDB Elevation Method		1419 ft. Calc from DEM (USGS 7.5 min or equiv.)		
		Drilling Method Hollow Stem Auger		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.	
		Use Monitor well		
		Casing Type Plastic Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below ft.		
		Casing Diameter 2 in. to 8 ft.	Weight 0.69 lbs./ft.	Hole Diameter 9 in. to 19 ft.
Well Address 4931 AIRPORT RD DULUTH MN 55802		Open Hole from ft. to ft.		
		Screen YES Make MONOFLEX Type plastic		
Geological Material		Diameter	Slot/Gauze	Length
	Color			Set Between
SANDY SILT	BROWN	2	10	10
CLAY	BROWN			8 ft. and 18 ft.
SANDY SILT	BROWN	8		
	Hardness	From	To	
	SOFT	0	4	
	SOFT	4	8	
	SOFT	8	19	
		Static Water Level 12 ft. from Land surface Date Measured 10/13/2006		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS MW-13		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 6 ft. 3 bags		
Located Minnesota Department of Health Method GPS SA Off (averaged)		Nearest Known Source of Contamination 0 feet direction type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Unique Number Verification N/A Date 10/12/2006		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		
System UTM - Nad83, Zone15, Meters X: 561170 Y: 5187658		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Variance Was a variance granted from the MDII for this well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Mark J Traut Wells, Inc. 1404 FAUTSCH, K. License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock		County Well Index Online Report		
Last Strat Unknown deposit type Aquifer		747232		Printed 6/15/2008 HE-01205-07
Depth to Bedrock ft.				

SITE SUMMARY

Site Name: MSP Airport

Fire Department: MSP Airport Fire Department
Metropolitan Airports Commission

Site Contact: Toni Howell, MAC Manager, Environmental Affairs
612-726-8100
thowell@mspmac.org

Training Location: Training conducted on plugged concrete area at MSP, which is pumped out and disposed off-site to sanitary sewer system by a licensed contractor. Training at Humphrey remote ramp or a de-icing pad with covered/plugged drains.

Type of foam used in training: AFFF: Ansul 3% (current); 3M (historic)

Foam training frequency: Quarterly

Foam use per training event: 5 to 10 gallons

Spent foam destination: Shipped off-site for disposal to sanitary sewer system

Annual foam use: AFFF: 200 to 250 gallons
Class B Protein: historic use (1960s/1970s), amount and training use unknown
Class A: 5 gallons

Nearest surface water: Minnesota River less than 1/4 mile south; Mother Lake adjacent to northwest end of airport.

Nearest wetland: Adjacent west, northwest and south of airport

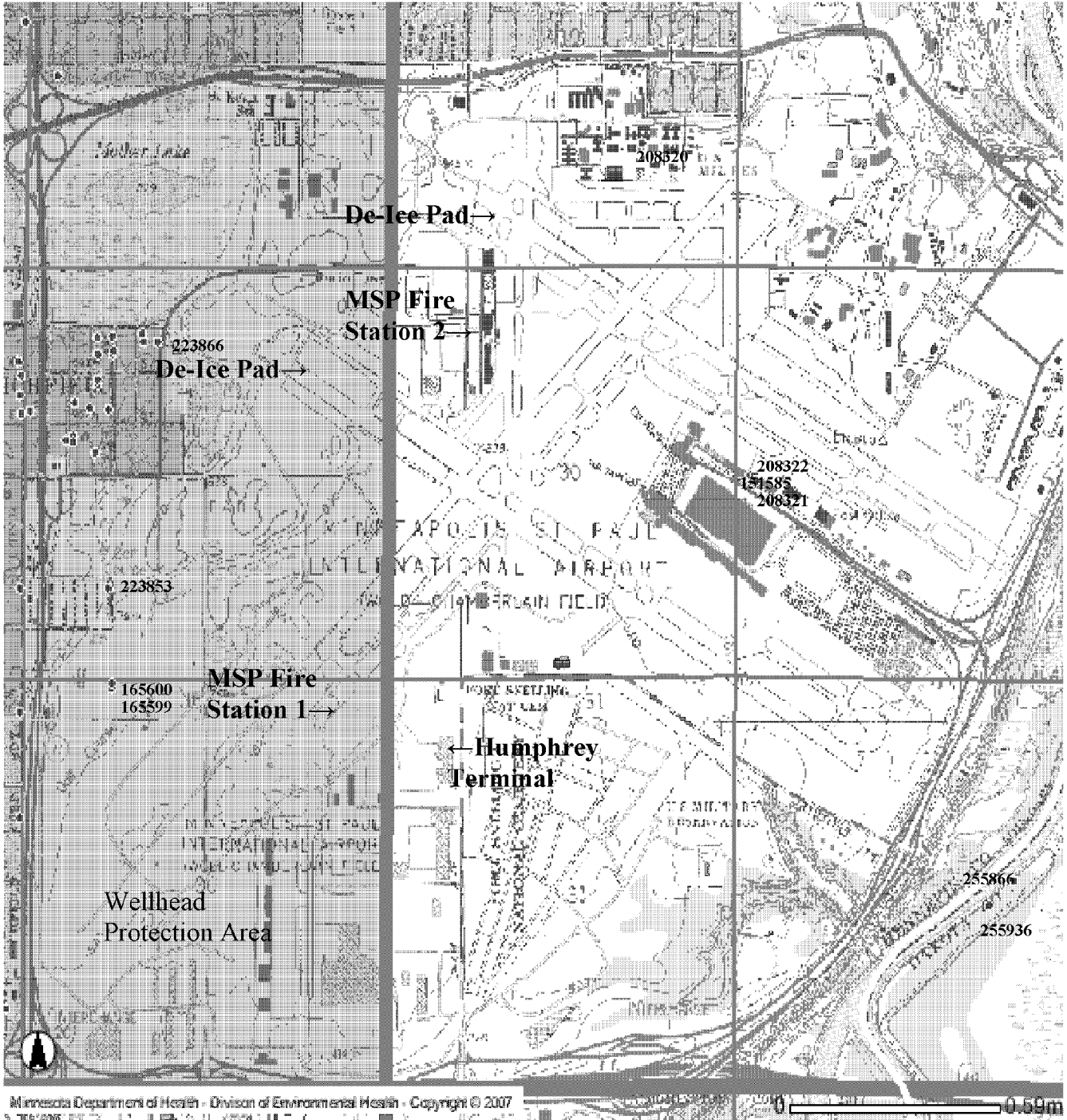
Karst Area: Site appears to be located in an active karst area

Nearest water well: On airport property

Nearest Wellhead Protection Area: Western portion of airport is in a Wellhead Protection Area

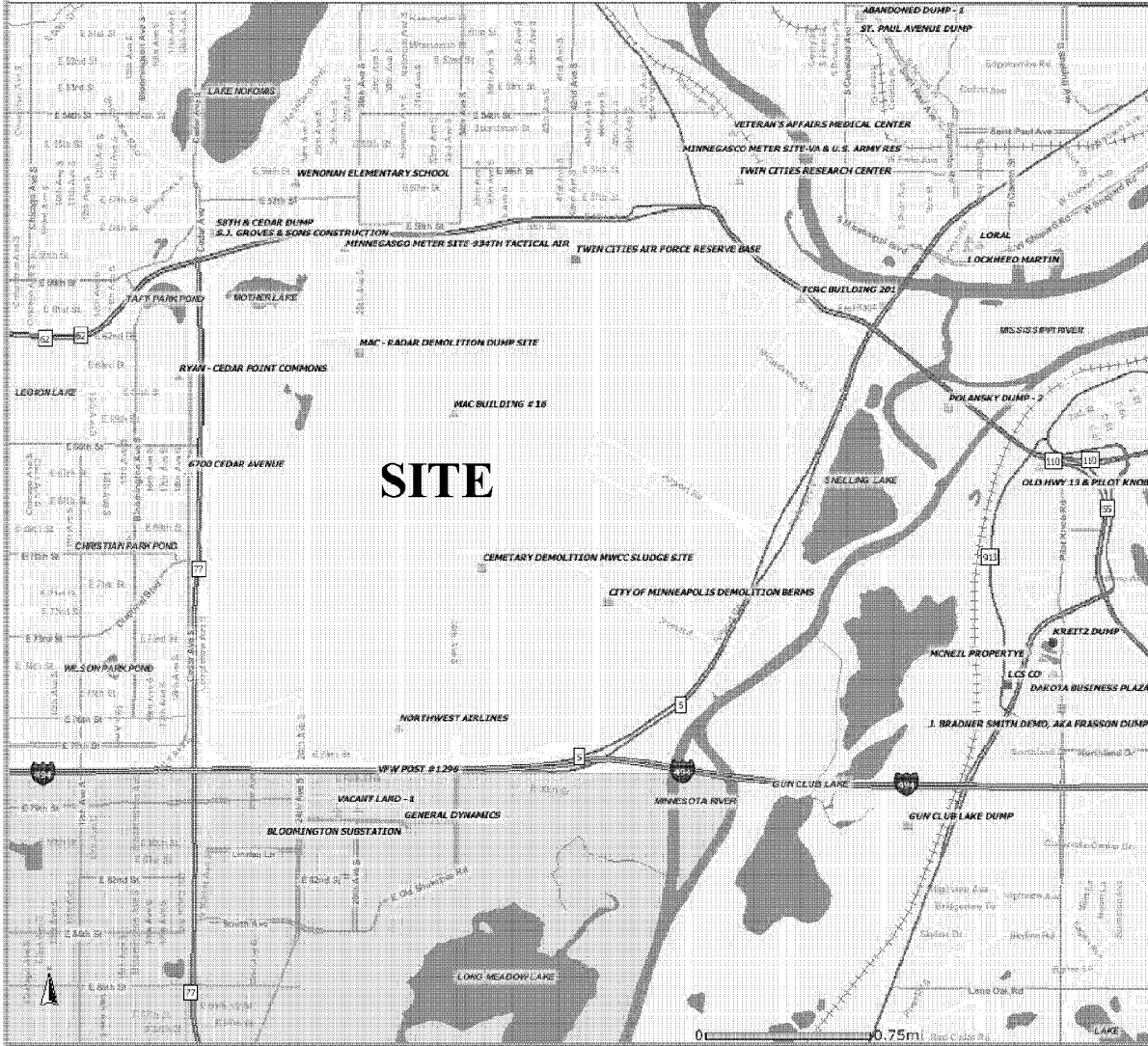
SITE RANKING: 33

MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

MSP Airport What's In My Neighborhood Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - HFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

151585

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 10/20/2006
 Received Date

Well Name INTERNATIONAL AIRPORT 3 Township Range Dir Section Subsections Elevation 818 ft. 28 23 W 29 CBBBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 432 ft. Depth Completed 432 ft. Date Well Completed 09/00/1986
Well Address AIRPORT DR MINNEAPOLIS MN 55111		Drilling Method Cable Tool Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material FILL PLATTVILLE SHALE ST. PETER (SANDROCK) SHALE SHAKOPEE LIMEROCK JORDAN - SANDROCK		Use Abandoned Status Sealed Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.
Color BROWN GRAY GRAY YELLOW GRAY GRAY WHITE	Hardness HARD MEDIUM MEDIUM MEDIUM WHITE	Weight lbs./ft. Hole Diameter lbs./ft. Open Hole from 230 ft. to 432 ft.
From 0 7 33 36 151 201 329	To 7 33 36 151 201 432	Screen NO Make Type Diameter Slot/Gauze Length Set Between
Static Water Level 90.4 ft. from Land surface Date Measured 07/00/1986		PUMPING LEVEL (below land surface) 141.75 ft. after 8 hrs. pumping 1500 g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 230 ft. 46 yds.
REMARKS M.G.S. NO. 2610. WELL SEALED 10-19-1998. H-141954. WELL SEALED 10-19-1998 BY 62012 ORIGINAL USE CO - COMMERCIAL		Nearest Known Source of Contamination 1000 feet E direction Body of water type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Public Land Survey - QQQQQQ Section Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 483660 Y: 4970036	Pump <input checked="" type="checkbox"/> Not Installed Date Installed 07/00/1986 Manufacturer's name PEERLESS Model number OIL LUB HP 125 Volts 460 Length of drop Pipe 200 ft. Capacity 1400 g.p.m Type Turbine Material Steel (black or low carbon)	
Cuttings Yes First Bedrock Platteville Aquifer Prairie Du Chien-Jordan Last Strat Jordan Depth to Bedrock 7 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
County Well Index Online Report		Well Contractor Certification Keys Well Co. 62012 SITTIG, R. License Business Name Lic. Or Reg. No. Name of Driller
151585		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

165599

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF
 HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 05/06/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name RICHFIELD GOLF COURSE		Well Depth 258 ft.	Depth Completed 258 ft.	Date Well Completed 05/03/1979	
Township Range Dir Section Subsections Elevation 28 24 W 36 BBAAAA Elevation Method topographic map (+/- 5 feet)		Drilling Method --			
Well Address RICHFIELD MN Geological Material Color Hardness From To SAND VARIED 0 4 SANDY CLAY BROWN 4 21 GRAVEL BROWN 21 44 CLAY & SOME GRAVEL BROWN 44 64 CLAY & SOME GRAVEL BROWN 64 150 CLAY & GRAVEL VARIED 150 171 SHALE & SANDSTONE YELLOW 171 194 LIMESTONE YELLOW 194 258		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
		Use Abandoned Status Sealed			
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.			
		Casing Diameter 6 in. to 178 ft.		Weight lbs./ft.	Hole Diameter
		Open Hole from 178 ft. to 258 ft.			
		Screen NO		Make	Type
		Diameter	Slot/Gauze	Length	Set Between
		Static Water Level 90 ft. from land surface Date Measured 05/03/1979			
		PUMPING LEVEL (below land surface) 116 ft. after hrs. pumping 100 g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS M.G.S. NO. 1501 & 2094. M.P.-92 GLEN LENTNER 861-6505 OSP - OPC WELL SEALED 03-30-2000 BY 00123 ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner Date N/A System UTM - Nad83, Zone15, Meters X: 480815 Y: 4969205		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name RED JACKET Model number 8DC HP 2 Volts 230 Length of drop Pipe 126 ft. Capacity 35 g.p.m Type Submersible Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification Renner E.h. & Sons 02015 License Business Name Lic. Or Reg. No. Name of Driller			
		Cuttings Yes			
		First Bedrock St.Peter Aquifer Multiple			
		Last Strat Prairie Du Chien Group Depth to Bedrock 171 ft.			
County Well Index Online Report		165599	Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

165600

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 05/06/2005
 Received Date

Minnesota Statutes Chapter 103I

Well Name RICHFIELD GOLF COURSE		Well Depth 338 ft.	Depth Completed 338 ft.	Date Well Completed 07/00/1979																																												
Township Range Dir Section Subsections Elevation 28 24 W 36 BBAAAA Elevation Method topographic map (+/- 5 feet)		Drilling Method --																																														
Well Address RICHFIELD MN Geological Material <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>BROWN</td><td></td><td>0</td><td>20</td></tr> <tr><td>GRAY</td><td></td><td>20</td><td>40</td></tr> <tr><td>GRAY</td><td></td><td>40</td><td>55</td></tr> <tr><td>GRAY</td><td></td><td>55</td><td>65</td></tr> <tr><td>GRAY</td><td></td><td>65</td><td>140</td></tr> <tr><td>GRAY</td><td></td><td>140</td><td>160</td></tr> <tr><td>GRAY</td><td></td><td>160</td><td>170</td></tr> <tr><td>YELLOW</td><td></td><td>170</td><td>175</td></tr> <tr><td>GRAY</td><td></td><td>175</td><td>200</td></tr> <tr><td>GRAY</td><td></td><td>200</td><td>338</td></tr> </tbody> </table>		Color	Hardness	From	To	BROWN		0	20	GRAY		20	40	GRAY		40	55	GRAY		55	65	GRAY		65	140	GRAY		140	160	GRAY		160	170	YELLOW		170	175	GRAY		175	200	GRAY		200	338	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Color	Hardness	From	To																																											
		BROWN		0	20																																											
		GRAY		20	40																																											
		GRAY		40	55																																											
		GRAY		55	65																																											
		GRAY		65	140																																											
		GRAY		140	160																																											
		GRAY		160	170																																											
		YELLOW		170	175																																											
GRAY		175	200																																													
GRAY		200	338																																													
Use Abandoned Status Sealed																																																
Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																																																
Casing Diameter 20 in. to 181 ft.		Weight lbs./ft.	Hole Diameter																																													
Open Hole from 181 ft. to 338 ft.																																																
Screen NO		Make	Type																																													
Diameter	Slot/Gauze	Length	Set Between																																													
Static Water Level 95 ft. from land surface Date Measured 07/00/1979																																																
PUMPING LEVEL (below land surface) 150 ft. after hrs. pumping 1300 g.p.m.																																																
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																																
REMARKS M.G.S. NO. 1602 M.G.S.#1602. M.P.? GLEN LENTNER 861-6505 WELL SEALED 03-24-2000 BY 00123 ORIGINAL USE IR - IRRIGATION Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 10/09/2002 System UTM - Nad83, Zone15, Meters X: 480816 Y: 4969223		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																														
		Nearest Known Source of Contamination _feet _direction _type																																														
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																														
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name JACUZZI Model number 12MCZ _ HP 200 Volts 460 Length of drop Pipe 200 ft. Capacity 1100 g.p.m Type Jet Material																																														
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																														
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																														
		Well Contractor Certification Renner E.h. & Sons 02015 License Business Name Lic. Or Reg. No. Name of Driller																																														
		County Well Index Online Report																																														
		165600		Printed 6/29/2008 HE-01205-07																																												

Minnesota Unique Well No.

208320

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD

Entry Date 08/24/1991
 Update Date 06/03/2004
 Received Date

Minnesota Statutes Chapter 103I

Well Name NAVAL AIR STAT.		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		446 ft.	446 ft.	06/09/1943	
28	23 W 19 DBDDDBB	Elevation Method 845 ft. 7.5 minute topographic map (+/- 5 feet)			
		Drilling Method --			
Well Address BLOOMINGTON MN		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		--	From Ft. to Ft.		
		Use Commercial			
		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Above/Below 0 ft.			
		Casing Diameter	Weight	Hole Diameter	
Geological Material		Open Hole from ft. to ft.			
	Color Hardness From To	Screen Make Type			
SAND AND CLAY		0	3		
SAND		3	18		
ROCKS AND HARDPAN		18	29		
CLAY AND ROCKS		29	56		
BLUE CLAY	BLUE	56	83		
HARD SANDY CLAY AND WOOD		83	110		
SANDROCK		110	175		
SANDROCK AND SHALE		175	224		
SHAKOPEE		224	350		
JORDAN SANDROCK		350	410		
JORDAN WITH SHALE		410	446		
		Static Water Level			
		135 ft. from Land surface Date Measured 08/02/1988			
		PUMPING LEVEL (below land surface)			
		ft. after hrs. pumping g.p.m.			
		Well Head Completion			
		Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade			
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
CASING: 24" TO 102; 16" TO 236. M.P.-1.0 JESSE BARNABY 725-5370/5360 GAMMA LOGGED 4/7/89.					
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)			
Unique Number Verification N/A		Date N/A			
System UTM - Nad83, Zone15, Meters		X: 483180 Y: 4971333			
		Nearest Known Source of Contamination			
		_feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input checked="" type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name FAIRBANKS MORSE Model			
		number __ HP 50 Volts 230			
		Length of drop Pipe _ft. Capacity 1000 g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)?			
		<input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes			
		<input type="checkbox"/> No			
		Well Contractor Certification			
		Keys Well Co. 62012			
		License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report		208320		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

208321

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 10/20/2006
 Received Date

<p>Well Name METROPOLITAN AIRPORT 2 Township Range Dir Section Subsections Elevation 815 ft. 28 23 W 29 CBBBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 400 ft. Depth Completed 400 ft. Date Well Completed 06/22/1970 Drilling Method --</p>	
<p>Well Address BLOOMINGTON MN</p> <p>Geological Material Color Hardness From To PLATTEVILLE LIMESTONE 0 36 SHALE BLUE 36 43 ST. PETER SANDSTONE 43 194 SHAKOPEE 194 323 JORDAN SANDSTONE 323 400</p>	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Abandoned Status Sealed</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <p>Casing Diameter 16 in. to 204 ft. Weight lbs./ft. Hole Diameter</p> <p>Open Hole from 204 ft. to 400 ft.</p> <p>Screen NO Make Type</p> <p>Diameter Slot/Gauze Length Set Between</p>	
	<p>Static Water Level 125 ft. from Land surface Date Measured 07/18/1988</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	
	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to ft. 35 yds.</p> <p>Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe ___ft. Capacity ___g.p.m Type Material</p>	
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Layne Well Co. 27010 HOLLEN, G. License Business Name Lic. Or Reg. No. Name of Driller</p>	
	<p>REMARKS M.G.S. NO. 546. PUMPING LEVEL ON 7/18 - 150' WELL NO.2. WELL SEALED 11-15-2000 BY 62012. ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 483683 Y: 4970035</p>	
	<p>Cuttings Yes First Bedrock Platteville Aquifer Prairie Du Chien-Jordan Last Strat Jordan Depth to Bedrock 0 ft.</p>	
	<p>County Well Index Online Report</p>	<p>208321</p>

Printed 6/29/2008
 HE-01205-07

Minnesota Unique Well No.

208322

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
 Update Date 10/20/2006
 Received Date

<p>Well Name AIRPORT TERMINAL BOILER 1 Township Range Dir Section Subsections Elevation 815 ft. 28 23 W 29 CBBBAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 416 ft. Depth Completed 416 ft. Date Well Completed 02/01/1961 Drilling Method Cable Tool</p>																																																																				
<p>Well Address BLOOMINGTON MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>SAND</td> <td></td> <td></td> <td>0</td> <td>5</td> </tr> <tr> <td>PLATTEVILLE LIMESTONE</td> <td></td> <td></td> <td>5</td> <td>30</td> </tr> <tr> <td>SHALEY LIMESTONE</td> <td></td> <td></td> <td>30</td> <td>36</td> </tr> <tr> <td>ST. PETER SANDSTONE</td> <td></td> <td></td> <td>36</td> <td>194</td> </tr> <tr> <td>SHAKOPEE-ONEOTA DOLOMITE</td> <td></td> <td></td> <td>194</td> <td>331</td> </tr> <tr> <td>SANDSTONE WITH SEAMS LIMESTONE</td> <td>HARD</td> <td></td> <td>331</td> <td>340</td> </tr> <tr> <td>JORDAN SANDSTONE</td> <td></td> <td></td> <td>340</td> <td>412</td> </tr> <tr> <td>SANDY SHALE (ST. LAWRENCE)</td> <td></td> <td></td> <td>412</td> <td>416</td> </tr> </tbody> </table>		Color	Hardness	From	To	SAND			0	5	PLATTEVILLE LIMESTONE			5	30	SHALEY LIMESTONE			30	36	ST. PETER SANDSTONE			36	194	SHAKOPEE-ONEOTA DOLOMITE			194	331	SANDSTONE WITH SEAMS LIMESTONE	HARD		331	340	JORDAN SANDSTONE			340	412	SANDY SHALE (ST. LAWRENCE)			412	416	<p>Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Commercial</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Casing Diameter</th> <th>Weight</th> <th>Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>24 in. to 5 ft.</td> <td>lbs/ft.</td> <td></td> </tr> <tr> <td>16 in. to 220 ft.</td> <td>lbs/ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from 220 ft. to 416 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Static Water Level 77 ft. from Land surface Date Measured 02/01/1961</p> <p>PUMPING LEVEL (below land surface) 133 ft. after hrs. pumping 1600 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	24 in. to 5 ft.	lbs/ft.		16 in. to 220 ft.	lbs/ft.		Screen NO	Make	Type				Diameter	Slot/Gauze	Length	Set Between				
		Color	Hardness	From	To																																																																
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	SANDSTONE WITH SEAMS LIMESTONE	HARD		331	340																																																																
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Screen NO	Make	Type																																																																			
Diameter	Slot/Gauze	Length	Set Between																																																																		
<p>REMARKS WELL NO.1.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 483690 Y: 4970017</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to ft 30 yds.</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name JACUZZI Model number __ HP 100 Volts 220 Length of drop Pipe _ft. Capacity 1500 g.p.m Type Turbine Material</p>																																																																				
<p>First Bedrock Platteville Aquifer Prairie Du Chien-Jordan Last Strat St. Lawrence Depth to Bedrock 5 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Tri-state Well Co. 27118 BENEKE, R. License Business Name Lic. Or Reg. No. Name of Driller</p>																																																																				
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">208322</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/29/2008 HE-01205-07</p>																																																																				

Minnesota Unique Well No.

223853

County Hennepin
 Quad St Paul West
 Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 1031

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		51 ft.	51 ft.	05/10/1962
28	24 W 25 CCAAAD	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Drilling Method		--		
Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
--		From Ft. to Ft.		
Use		Domestic		
Casing Type		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Joint No Information		No Above/Below 0 ft.		
Casing Diameter		Weight	Hole Diameter	
2 in. to 48 ft.		lbs./ft.		
Open Hole		from ft. to ft.		
Screen YES		Make	JOHNSON	Type
Diameter	Slot/Gauze	Length	Set Between	
2	10	3	48 ft. and 51 ft.	
Static Water Level				
30 ft. from Land surface Date Measured 05/10/1962				
PUMPING LEVEL (below land surface)				
30 ft. after hrs. pumping 10 g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
NO REMARKS				
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Date N/A		
Verification Address verification				
System UTM - Nad83, Zone15, Meters		X: 480799 Y: 4969595		
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number __ HP 0 Volts				
Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
First Bedrock		Aquifer Quat. Water Table Aquifer		
Last Strat Sand-brown		Depth to Bedrock ft.		
County Well Index Online Report		223853		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

223866

County Hennepin
 Quad St Paul West
 Quad ID 103B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/24/1991
 Update Date 09/11/1991
 Received Date

Minnesota Statutes Chapter 103I

Well Name		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		51 ft.	51 ft.	10/16/1961
28	24 W 25 BACDAA	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
Well Address		Drilling Method --		
6314 STANDISH AV RICHFIELD MN		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material		Use Domestic		
SAND	Color Hardness From To	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.		
CLAY		Casing Diameter Weight Hole Diameter		
WATER SAND		2 in. to 48 ft. lbs./ft.		
		Open Hole from ft. to ft.		
		Screen YES Make JOHNSON Type		
		Diameter Slot/Gauze Length Set Between		
		2 10 3 48 ft. and 51 ft.		
		Static Water Level		
		20 ft. from Land surface Date Measured 10/16/1961		
		PUMPING LEVEL (below land surface)		
		20 ft. after hrs. pumping 12 g.p.m.		
		Well Head Completion		
		Pitless adapter manufacturer Model		
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Nearest Known Source of Contamination		
Verification Address verification		_feet _direction _type		
System UTM - Nad83, Zone15, Meters		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not Installed Date Installed		
		Manufacturer's name Model number __ HP 0 Volts		
		Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDII for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock		Well Contractor Certification		
Aquifer Quat. Water Table Aquifer		Dependable Well Co. 27143		
Last Strat Sand		License Business Name Lic. Or Reg. No. Name of Driller		
Depth to Bedrock ft.				
County Well Index Online Report		223866		Printed 6/29/2008 HE-01205-07

<p>Borehole Geophysics Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>First Bedrock Prairie Du Chien Group</p> <p>Last Strat Prairie Du Chien Group</p>		<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>Aquifer Prairie Du Chien Group</p> <p>Depth to Bedrock 73 ft.</p>		<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>County Well Index Online Report</p>		<p>Well Contractor Certification</p> <p>Minnesota Geological Survey <u>MGS</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
		<p>255866</p>	
		<p>Printed 6/29/2008 HE-01205-07</p>	

Minnesota Unique Well No.

255936

County **Dakota**
 Quad **St Paul SW**
 Quad ID **103C**

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date **02/27/2003**
 Update Date **02/27/2003**
 Received Date

Well Name FORT SNELLING W-60250 Township 28 Range 23 Dir W Section 32 DBAACD Subsections Elevation 702 ft. Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 128 ft. Depth Completed 128 ft. Date Well Completed
Drilling Method --		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No
Casing Diameter 5 in. to 77 ft. Weight lbs./ft. Hole Diameter		Open Hole from 77 ft to 128 ft.
Screen NO Make Type		Diameter Slot/Gauge Length Set Between
Static Water Level -1 ft. from L and surface Date Measured 02/26/2003		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number _ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material
Geological Material GLACIAL DRIFT PRAIRIE DU CHIEN GROUP Color Hardness From To 0 75 75 128		Remarks GAMMA LOGGED 2-26-2003. WELL FLOWS 25-30 GPM. WELL TO BE SEALED BY KIMMES-BAUER.
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information Date N/A from owner System UTM - Nad83, Zone15, Meters X: 484726 Y: 4968354		

<p>Borehole Geophysics Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>First Bedrock Prairie Du Chien Group</p> <p>Last Strat Prairie Du Chien Group</p>		<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>Aquifer Prairie Du Chien Group</p> <p>Depth to Bedrock 75 ft.</p>		<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>County Well Index Online Report</p>		<p>Well Contractor Certification</p> <p>Minnesota Geological Survey <u>MGS</u></p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>255936</p>		<p>Printed 6/29/2008 HE-01205-07</p>	

SITE SUMMARY

Site Name: Rochester Airport

Fire Department: Rochester Airport Fire Department
1500 Helgerson Drive SW
Rochester, MN 55901

Site Contact: Kurt Claussen, Assistant Airport Manager
507-282-2328 ext. 102
claussen@rochesterintlairport.com

Training Location: Various on-site locations as selected by FAA Inspector, usually a runway. "Short bursts" of foam required in annual training by FAA. Firefighters trained at facility in Duluth.

Type of foam used in training: AFFF: Chemguard

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: Ground

Annual foam use: AFFF: less than 5 gallons

Nearest surface water: Several intermittent streams surrounding airport

Nearest wetland: Adjacent south of airport

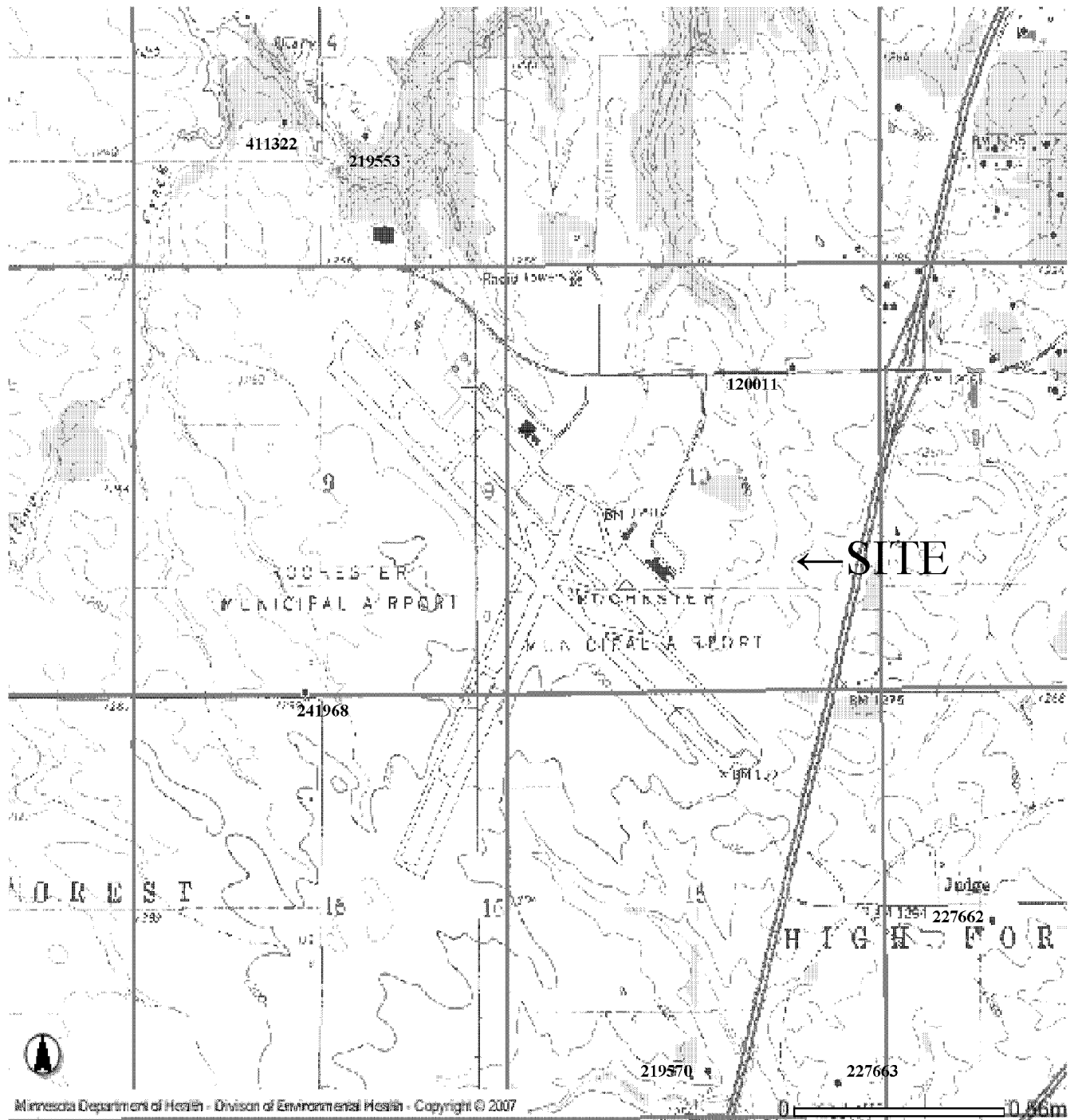
Karst Area: Site is located in an active karst area

Nearest water well: Less than 1/4 mile west

Nearest Wellhead Protection Area: None within one mile

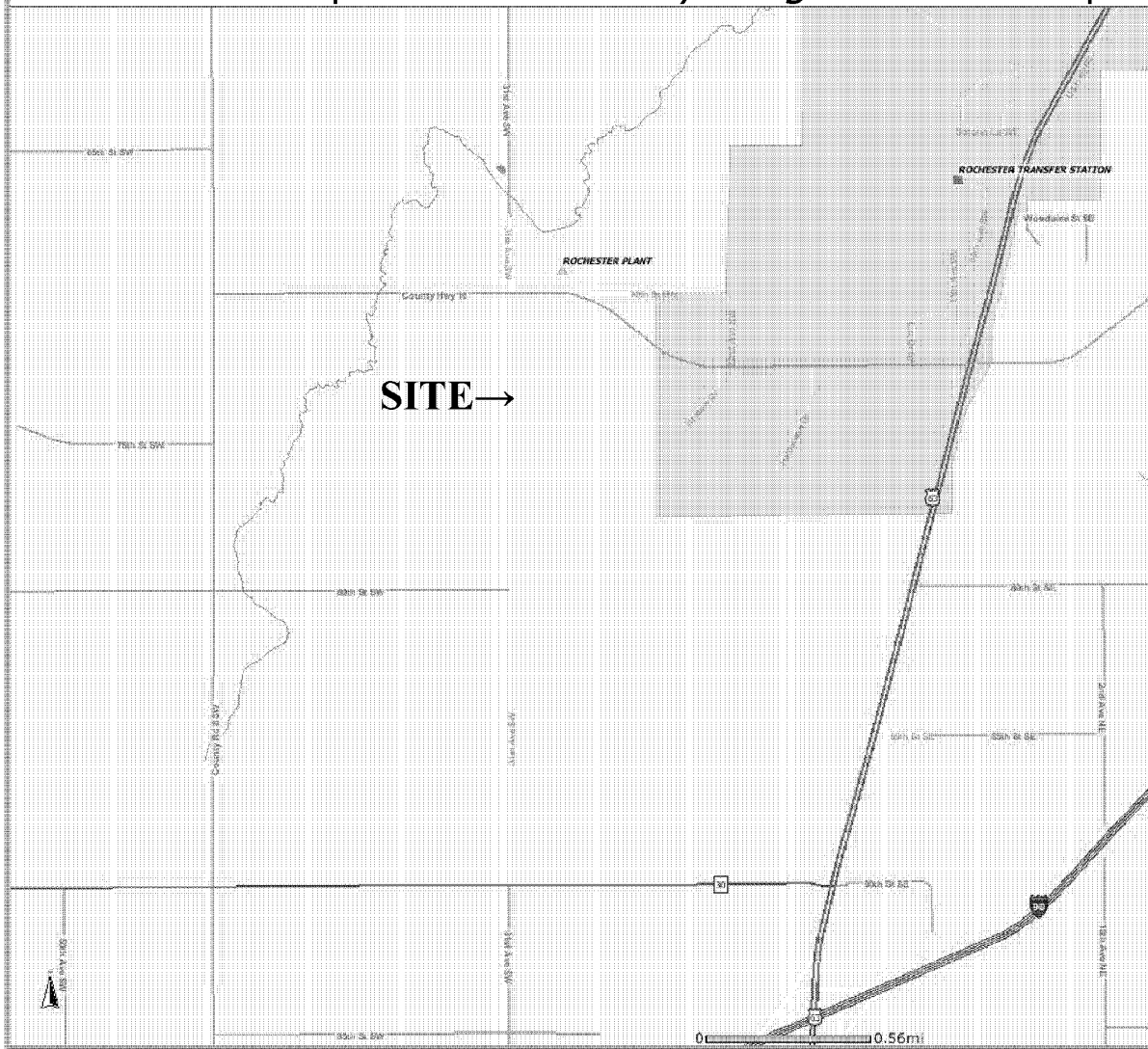
SITE RANKING: 16

ROCHESTER AIRPORT CWI Well Map



Minnesota Department of Health - Division of Environmental Health - Copyright © 2007

Rochester Airport *What's In My Neighborhood* Map

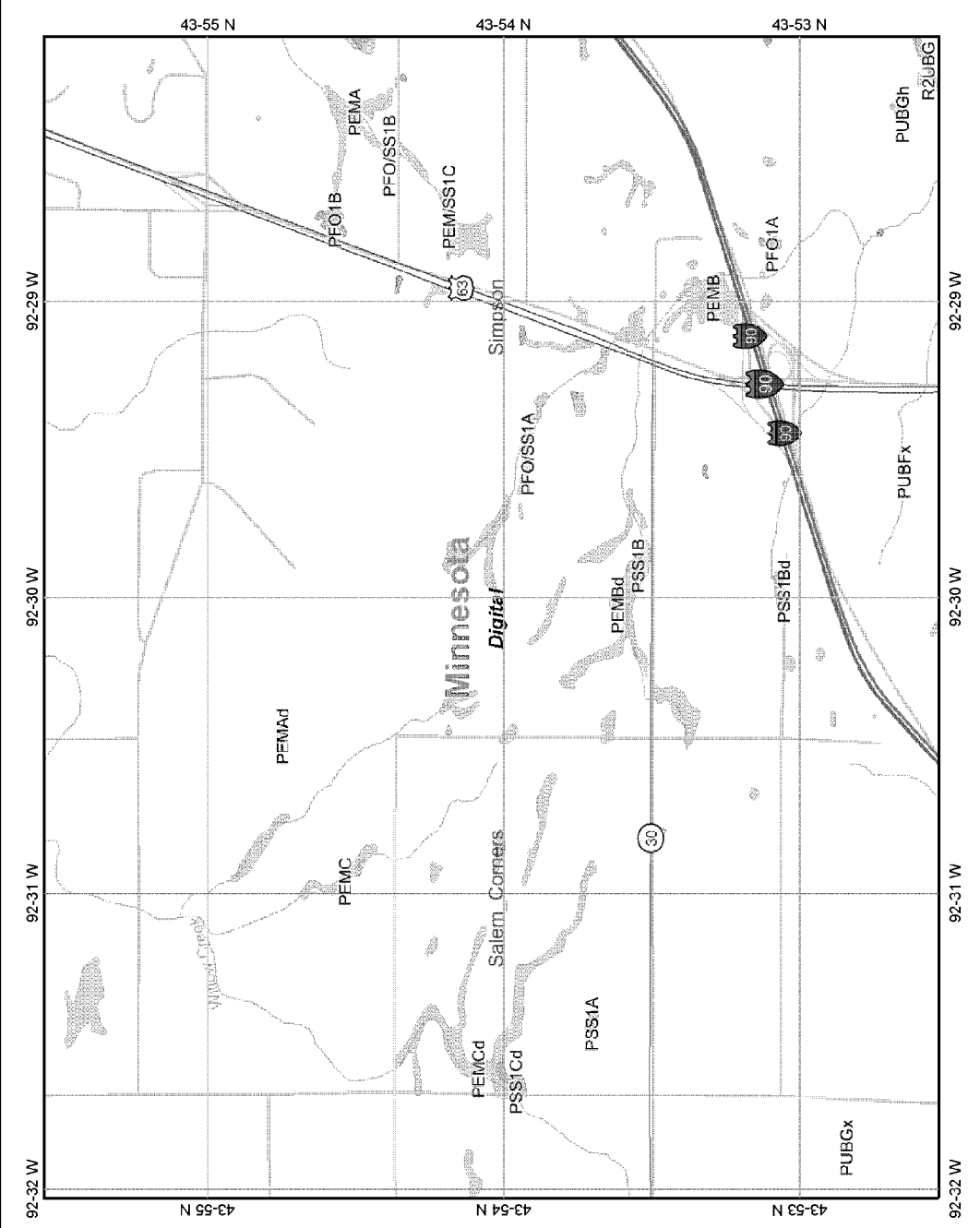


Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

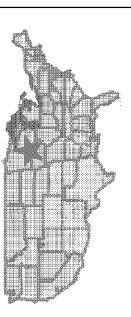


- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Rochester Airport Wetland Map



Map center: 43° 54' 2" N, 92° 30' 4" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:39,157

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

First Bedrock Galena	Aquifer St.Peter	Well Contractor Certification	
Last Strat St.Peter	Depth to Bedrock 15 ft.	<u>Thein Well Co.</u>	<u>55079</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		120011	Printed 6/29/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 01/25/1988
Update Date 01/25/1995
Received Date

Minnesota Unique Well No.

219553

County Olmsted
Quad Salem Corners
Quad ID 29A

*Minnesota Statutes Chapter
1031*

Well Name CHURCHILL, KEITH					Well Depth 355 ft.		Depth Completed 355 ft.		Date Well Completed 03/15/1974																																				
Township Range Dir Section Subsections Elevation 105 14 W 4 DBCDAA Elevation Method 7.5 minute topographic map (+/- 5 feet)																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>DRIFT</td><td></td><td></td><td>0</td><td>20</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>20</td><td>180</td></tr> <tr><td>SHALE</td><td></td><td></td><td>180</td><td>230</td></tr> <tr><td>LIMESTONE</td><td></td><td></td><td>230</td><td>250</td></tr> <tr><td>SHALE</td><td></td><td></td><td>250</td><td>255</td></tr> <tr><td>SANDSTONE</td><td></td><td></td><td>255</td><td>355</td></tr> </tbody> </table>					Geological Material	Color	Hardness	From	To	DRIFT			0	20	LIMESTONE			20	180	SHALE			180	230	LIMESTONE			230	250	SHALE			250	255	SANDSTONE			255	355	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
					Geological Material	Color	Hardness	From	To																																				
					DRIFT			0	20																																				
					LIMESTONE			20	180																																				
					SHALE			180	230																																				
					LIMESTONE			230	250																																				
					SHALE			250	255																																				
					SANDSTONE			255	355																																				
					Use Domestic																																								
					Casing Type Joint No Information		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No		No Above/Below 0 ft.																																				
Casing Diameter		Weight		Hole Diameter																																									
8 in. to 22 ft.		lbs./ft.																																											
4 in. to 312 ft.		lbs./ft.																																											
Open Hole from 312 ft. to 355 ft.																																													
Screen NO		Make		Type																																									
Diameter		Slot/Gauze		Length		Set Between																																							
Static Water Level 210 ft. from Land surface Date Measured 03/15/1974																																													
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.																																													
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																													
REMARKS CASING: 008 TO 0022;004 TO 0312.					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																								
Located Minnesota Geological Survey					Method Digitized - scale 1:24,000 or larger (Digitizing Table)																																								
Unique Number					Date N/A																																								
Verification N/A																																													
System UTM - Nad83, Zone15, Meters					X: 539654 Y: 4863674																																								
Nearest Known Source of Contamination _feet _direction _type																																													
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																													
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material																																													
Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																													
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																													

First Bedrock Galena Last Strat St.Peter	Aquifer St.Peter Depth to Bedrock 20 ft.	Well Contractor Certification <u>Thein Well Co.</u> <u>55079</u> License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	219553	Printed 6/29/2008 HE-01205-07

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 01/25/1988
Update Date 03/16/1995
Received Date

Minnesota Unique Well No.

219570

County Olmsted
Quad Simpson
Quad ID 28B

*Minnesota Statutes Chapter
1031*

Well Name BELL NORTHERN OIL CO					Well Depth 390 ft.		Depth Completed 390 ft.		Date Well Completed 01/29/1964																																				
Township Range Dir Section Subsections Elevation 105 14 W 15 DCCBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Drilling Method --																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>DRIFT CAVEY</td><td></td><td></td><td>0</td><td>38</td></tr> <tr><td>GALENA</td><td></td><td></td><td>38</td><td>226</td></tr> <tr><td>DECORAH</td><td></td><td></td><td>226</td><td>268</td></tr> <tr><td>PLATTEVILLE</td><td></td><td></td><td>268</td><td>279</td></tr> <tr><td>GLENWOOD</td><td></td><td></td><td>279</td><td>295</td></tr> <tr><td>ST. PETER</td><td></td><td></td><td>295</td><td>390</td></tr> </tbody> </table>					Geological Material	Color	Hardness	From	To	DRIFT CAVEY			0	38	GALENA			38	226	DECORAH			226	268	PLATTEVILLE			268	279	GLENWOOD			279	295	ST. PETER			295	390	Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
					Geological Material	Color	Hardness	From	To																																				
					DRIFT CAVEY			0	38																																				
					GALENA			38	226																																				
					DECORAH			226	268																																				
					PLATTEVILLE			268	279																																				
					GLENWOOD			279	295																																				
					ST. PETER			295	390																																				
					Use Commercial																																								
					Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.																																								
Casing Diameter		Weight		Hole Diameter																																									
4 in. to 312 ft.		lbs./ft.																																											
Open Hole from 312 ft. to 390 ft.																																													
Screen NO		Make		Type																																									
Diameter		Slot/Gauze		Length		Set Between																																							
Static Water Level 246 ft. from Land surface Date Measured 01/29/1964																																													
PUMPING LEVEL (below land surface) 0 ft. after hrs. pumping 25 g.p.m.																																													
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																													
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number</p> <p>Verification Other, note in remarks Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 541125 Y: 4860157</p>					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																								
					Nearest Known Source of Contamination _feet _direction _type																																								
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
					Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name RED JACKET Model number __ HP 1.5 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material																																								
					Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																													

First Bedrock Galena	Aquifer St.Peter	Well Contractor Certification	
Last Strat St.Peter	Depth to Bedrock 38 ft.	<u>Rowland Well Co.</u>	<u>23124</u>
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		219570	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

227662

County Olmsted
 Quad Simpson
 Quad ID 28B

**MINNESOTA
 DEPARTMENT OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 01/25/1988
 Update Date 01/25/1995
 Received Date

Minnesota Statutes Chapter 103I

Well Name MICH, MARY & EMILY				Well Depth 206 ft.		Depth Completed 206 ft.		Date Well Completed 04/30/1973	
Township Range Dir Section Subsections Elevation 105 14 W 14 CABBDB Elevation Method 7.5 minute topographic map (+/- 5 feet)									
				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
				Use Domestic					
				Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.					
				Casing Diameter 4 in. to 146 ft.		Weight lbs./ft.		Hole Diameter	
				Open Hole from 147 ft. to 206 ft.					
				Screen NO		Make GALENA		Type	
				Diameter		Slot/Gauze		Length Set Between	
Geological Material				Color		Hardness		From To	
OLD HOLE								0 163	
GALENA								163 206	
				Static Water Level 29 ft. from Land surface Date Measured 04/30/1973					
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.					
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					
REMARKS REDRILL OF 6 INCH WELL 163 FEET DEEP				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Located Minnesota Geological Survey				Method Digitized - scale 1:24,000 or larger (Digitizing Table)					
Unique Number				Nearest Known Source of Contamination _feet _direction _type					
Verification Information from owner				Date N/A					
System UTM - Nad83, Zone15, Meters				X: 542347 Y: 4860724					
				Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material					
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No					
First Bedrock No Record				Well Contractor Certification Rowland Well Co. 23124					
Last Strat Galena				Aquifer Galena					
				Depth to Bedrock ft. License Business Name Lic. Or Reg. No. Name of Driller					

County Well Index Online Report	227662	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

227663

County Olmsted
 Quad Simpson
 Quad ID 28B

MINNESOTA
 DEPARTMENT OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 01/25/1988
 Update Date 01/25/1995
 Received Date

Minnesota Statutes Chapter 103I

Well Name PEHL, ALFRED				Well Depth 145 ft.		Depth Completed 145 ft.		Date Well Completed 04/24/1959			
Township Range Dir Section Subsections Elevation 105 14 W 15 DDDDBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)				Drilling Method --							
Geological Material DRIFT GALENA, LIMESTONE Color Hardness From To 0 98 98 145				Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.					
				Use Domestic							
				Casing Type Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 0 ft.							
				Casing Diameter 6 in. to 101 ft.		Weight lbs./ft.		Hole Diameter			
				Open Hole from ft. to ft.							
				Screen Make Type							
				Diameter		Slot/Gauze		Length		Set Between	
				Static Water Level 46 ft. from Land surface Date Measured 04/24/1959							
				PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.							
				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)							
NO REMARKS Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from neighbor Date N/A System UTM - Nad83, Zone15, Meters X: 541684 Y: 4860112				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No							
				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No							
				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material							
				Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No							
				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No							
First Bedrock Galena Last Strat Galena Aquifer Galena Depth to Bedrock 98 ft.				Well Contractor Certification Rowland Well Co. 23124 License Business Name Lic. Or Reg. No. Name of Driller							

County Well Index Online Report	227663	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

241968

County Olmsted
 Quad Salem Corners
 Quad ID 29A

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I**

Entry Date 01/28/1992
 Update Date 01/08/1996
 Received Date

<p>Well Name ROCHESTER AIRPORT - MONI Township Range Dir Section Subsections Elevation 105 14 W 9 CDDDCD Elevation Method 1300 ft. 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 414 ft. Depth Completed 414 ft. Date Well Completed</p>																																																																														
<p>Drilling Method --</p>																																																																															
<p>Drilling Fluid --</p>																																																																															
<p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p>																																																																															
<p>Use Other (specify in remarks)</p>																																																																															
<p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Above/Below 0 ft.</p>																																																																															
<p>Casing Diameter 4 in. to 334 ft. Weight lbs./ft. Hole Diameter</p>																																																																															
<p>Open Hole from 334 ft. to 407 ft.</p>																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Screen NO</th> <th>Make</th> <th>Type</th> <th>Diameter</th> <th>Slot/Gauze</th> <th>Length</th> <th>Set Between</th> </tr> </thead> <tbody> <tr> <td>To</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>34</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>101</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>176</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>238</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>285</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>304</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>308</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>400</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>414</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between	To							34							101							176							238							285							304							308							400							414						
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<p>REMARKS GAMMA LOGGED 2-9-1988. M.G.S. NO. 3198.</p>																																																																															
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<p>Pump <input type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP 0 _____ Volts _____</p> <p>Length of drop Pipe __ft. Capacity __g.p.m. Type _____ Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p>Minnesota Geological Survey MGS</p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>241968</p>	
<p>County Well Index Online Report</p>	
<p>Cuttings Yes Borehole Geophysics Yes</p> <p>First Bedrock Galena/Stewartville Mbr</p> <p>Last Strat Shakopee Fm(Prairie Du Chic</p>	<p>Aquifer Multiple</p> <p>Depth to Bedrock 34 ft.</p>
<p>Printed 6/29/2008 HE-01205-07</p>	

Minnesota Unique Well No.

411322

County Olmsted
 Quad Salem Corners
 Quad ID 29A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 01/25/1988
 Update Date 05/09/1995
 Received Date

<p>Well Name NORMAN, JACK Township Range Dir Section Subsections Elevation 1240 ft. 105 14 W 4 CADBDB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 340 ft.</td> <td style="width:33%;">Depth Completed 340 ft.</td> <td style="width:33%;">Date Well Completed 11/28/1986</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> <tr> <td>Drilling Fluid --</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Domestic</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td>Casing Diameter 8 in. to 13 ft. 4 in. to 265 ft.</td> <td>Weight lbs./ft. lbs./ft.</td> <td>Hole Diameter 8 in. to 265 ft. 4 in. to 340 ft.</td> </tr> <tr> <td colspan="3">Open Hole from 265 ft. to 340 ft.</td> </tr> <tr> <td>Geological Material</td> <td>Color</td> <td>Hardness</td> </tr> <tr> <td>DRIFT</td> <td>BROWN</td> <td>SOFT</td> </tr> <tr> <td>LIMESTONE</td> <td>TAN</td> <td>MEDIUM</td> </tr> <tr> <td>LIMESTONE, BROKEN WITH CLAY</td> <td>BROWN</td> <td>SOFT</td> </tr> <tr> <td>LIMESTONE</td> <td>BROWN</td> <td>MEDIUM</td> </tr> <tr> <td>SHALE</td> <td>BLUE</td> <td>SOFT</td> </tr> <tr> <td>LIMESTONE</td> <td>TAN</td> <td>MEDIUM</td> </tr> <tr> <td>SHALE</td> <td>BROWN</td> <td>SOFT</td> </tr> <tr> <td>SANDSTONE</td> <td>WHITE</td> <td>SOFT</td> </tr> <tr> <td>DOLOMITE</td> <td>GRAY</td> <td>MEDIUM</td> </tr> <tr> <td>From</td> <td>To</td> <td></td> </tr> <tr> <td>0</td> <td>9</td> <td></td> </tr> <tr> <td>9</td> <td>28</td> <td></td> </tr> <tr> <td>28</td> <td>51</td> <td></td> </tr> <tr> <td>51</td> <td>171</td> <td></td> </tr> <tr> <td>171</td> <td>214</td> <td></td> </tr> <tr> <td>214</td> <td>235</td> <td></td> </tr> <tr> <td>235</td> <td>244</td> <td></td> </tr> <tr> <td>244</td> <td>340</td> <td></td> </tr> <tr> <td>340</td> <td>340</td> <td></td> </tr> </table>	Well Depth 340 ft.	Depth Completed 340 ft.	Date Well Completed 11/28/1986	Drilling Method Non-specified Rotary			Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Domestic			Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.			Casing Diameter 8 in. to 13 ft. 4 in. to 265 ft.	Weight lbs./ft. lbs./ft.	Hole Diameter 8 in. to 265 ft. 4 in. to 340 ft.	Open Hole from 265 ft. to 340 ft.			Geological Material	Color	Hardness	DRIFT	BROWN	SOFT	LIMESTONE	TAN	MEDIUM	LIMESTONE, BROKEN WITH CLAY	BROWN	SOFT	LIMESTONE	BROWN	MEDIUM	SHALE	BLUE	SOFT	LIMESTONE	TAN	MEDIUM	SHALE	BROWN	SOFT	SANDSTONE	WHITE	SOFT	DOLOMITE	GRAY	MEDIUM	From	To		0	9		9	28		28	51		51	171		171	214		214	235		235	244		244	340		340	340	
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information from owner System UTM - Nad83, Zone15, Meters Date N/A X: 539308 Y: 4863725</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Grout Material: Neat Cement from 0 to 265 ft. 6 yds.</td> </tr> <tr> <td>Nearest Known Source of Contamination 200 feet S direction Septic tank/drain field type</td> </tr> <tr> <td>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP 0 Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</td> </tr> <tr> <td>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Well Contractor Certification Rowland Well Co. 23124 ROWLAND, N. License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Neat Cement from 0 to 265 ft. 6 yds.	Nearest Known Source of Contamination 200 feet S direction Septic tank/drain field type	Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number IIP 0 Volts Length of drop Pipe ft. Capacity g.p.m. Type Material	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Well Contractor Certification Rowland Well Co. 23124 ROWLAND, N. License Business Name Lic. Or Reg. No. Name of Driller																																																																									
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<p>First Bedrock Galena Aquifer St.Peter Last Strat Prairie Du Chien Group Depth to Bedrock 9 ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">County Well Index Online Report</td> <td style="width:25%; text-align: center;">411322</td> <td style="width:25%; text-align: right;">Printed 6/29/2008 HF-01205-07</td> </tr> </table>	County Well Index Online Report	411322	Printed 6/29/2008 HF-01205-07																																																																														
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SITE SUMMARY

Site Name: Lake Superior College - Duluth
11501 Highway 23
Duluth, MN 55808

Site Contact: David Sarazin, Academic Supervisor
218-733-1077
d.sarazin@lsc.edu

Training Location: On site

Type of foam used in training: AFFF: 3M (historic use)
AR-AFFF: 3M (historic use)
Class B Protein: 3M (historic use)
Class A: Ansul Silv-ex
Training Foam: Trainol, Simufoam

Foam training frequency: Annually

Foam use per training event: Less than 5 gallons

Spent foam destination: On-site treatment facility

Annual foam use: AFFF: unknown, historical use
AR-AFFF: unknown, historical use
Class B Protein: unknown, historical use
Class A: less than 5 gallons
Training Foam: not specified

Nearest surface water: Sargent Creek, less than 1/4 mile east; St. Louis River less than 1/4 mile south

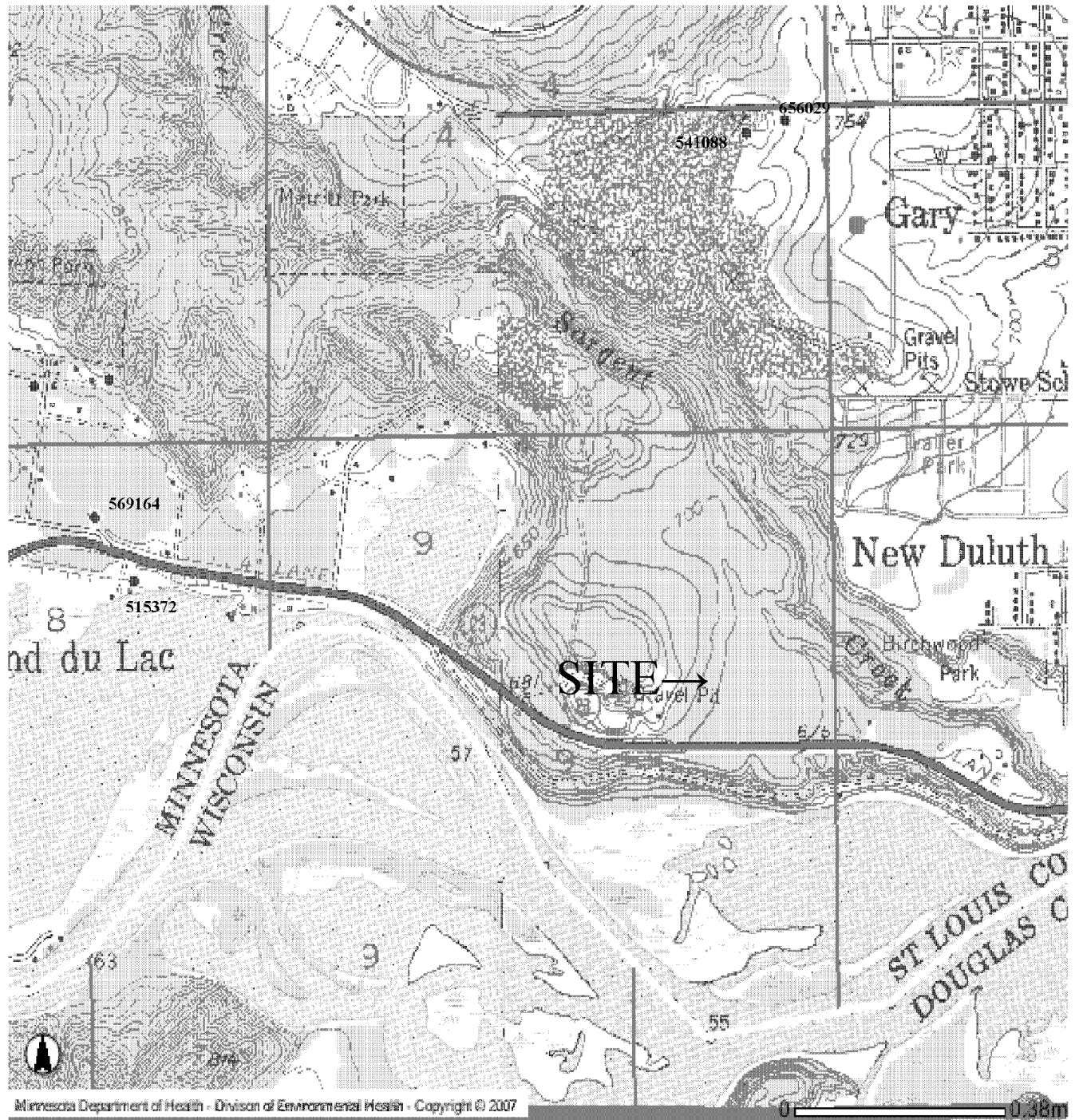
Nearest wetland: On or adjacent to site

Nearest water well: Approximately 1 mile west and north

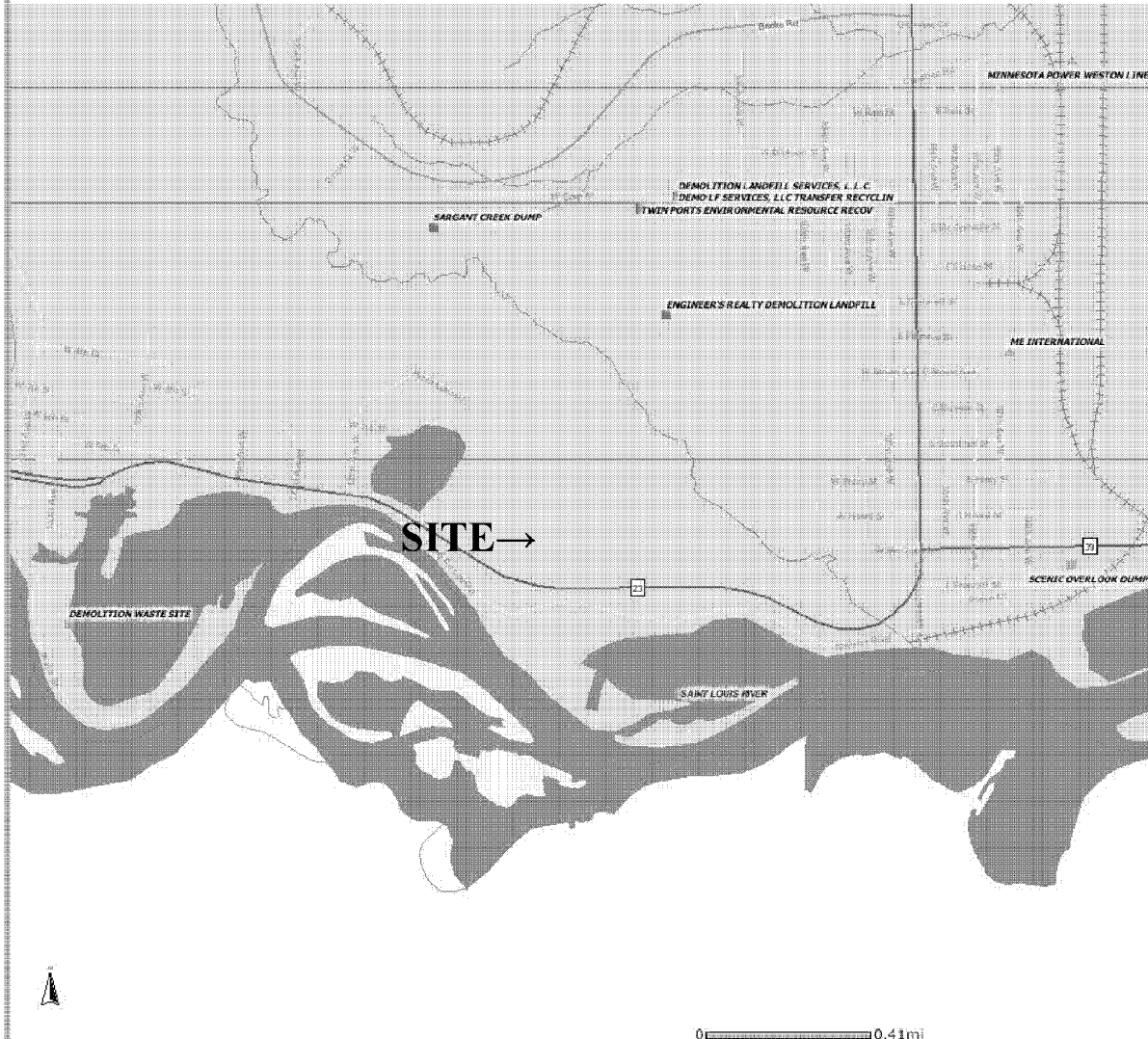
Nearest Wellhead Protection Area: None within one mile

SITE RANKING: 17

LAKE SUPERIOR COLLEGE - DULUTH CWI Well Map



Lake Superior College Duluth *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

515372

County St. Louis
 Quad Esko
 Quad ID 224A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/23/1993
 Update Date 10/03/2007
 Received Date

Well Name GLAMUZINA, JOHN Township Range Dir Section Subsections Elevation 610 ft. 48 15 W 8 AACCB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 75 ft. Depth Completed 75 ft. Date Well Completed 08/14/1992
Drilling Method Air Rotary		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Domestic		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
Casing Diameter 6 in. to 75 ft. Weight 19 lbs./ft. Hole Diameter		Open Hole from 75 ft. to 75 ft.
Well Address 1260223 HY DULUTH MN 55808		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Geological Material CLAY GRAVEL & SAND	Color GRAY Hardness SOFT From To 0 70 70 75	Static Water Level 10 ft. from Land surface Date Measured 08/14/1992
PUMPING LEVEL (below land surface) 20 ft. after 1 hrs. pumping 30 g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address verification Date 09/19/2007 System UTM - Nad83, Zone15, Meters X: 556325 Y: 5167623	Nearest Known Source of Contamination 77 feet E direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Abandoned Wells Does property have any not in use and not sealed well(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ ft. Capacity ___ g.p.m Type Material
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification Bleau Well Drilling 36336 BLEAU, D. License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Last Strat Sand & larger Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.	County Well Index Online Report 515372 Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

541088

County St. Louis
 Quad West Duluth
 Quad ID 223B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 03/13/1995
 Update Date 10/03/2007
 Received Date

Well Name DELZOTTO, BILL Township Range Dir Section Subsections Elevation 778 ft. 48 15 W 4 DABADB Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 327 ft.	Depth Completed 327 ft.	Date Well Completed 08/22/1994	
Drilling Method Air Rotary					Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Other (specify in remarks)					Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.			
Well Address 1100 GARY ST W DULUTH MN 55808					Casing Diameter 6 in. to ft.	Weight 18.97 lbs./ft.	Hole Diameter	
Geological Material					Open Hole from ft. to ft.			
CLAY	Color	Hardness	From	To	Screen NO	Make	Type	
SANDY CLAY	RED	MEDIUM	0	100	Diameter	Slot/Gauze	Length	
GRAVEL	RED	MEDIUM	100	195	Set Between			
CLAY	BROWN	HARD	195	210	Static Water Level 60 ft. from Land surface Date Measured 08/22/1994			
SAND GRAVEL	RED	MEDIUM	210	320	PUMPING LEVEL (below land surface) 240 ft. after 3 hrs. pumping 5 g.p.m.			
	BROWN	SOFT	320	327	Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
REMARKS 'SHOP IS USE.					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)					Nearest Known Source of Contamination 160 feet S direction Landfill type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Unique Number Verification Address verification Date 09/19/2007					Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number ___ HP ___ Volts Length of drop Pipe ___ ft. Capacity ___ g.p.m. Type Material			
System UTM - Nad83, Zone15, Meters X: 558069 Y: 5168742					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Last Strat Sand & larger-brown Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.					Well Contractor Certification Beau Well Drilling 36672 AUGLAND, J. License Business Name Lic. Or Reg. No. Name of Driller			
County Well Index Online Report					541088		Printed 6/29/2008 HE-01205-07	

Minnesota Unique Well No.

569164

County St. Louis
 Quad Esko
 Quad ID 224A

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I**

Entry Date 04/17/1996
 Update Date 10/03/2007
 Received Date

<p>Well Name STEPHENSON, JEFFREY Township Range Dir. Section Subsections Elevation 48 15 W 8 ABA/DCB Elevation Method 614 ft. 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 212 ft. Depth Completed 212 ft. Date Well Completed 02/20/1996</p> <p>Drilling Method Air Rotary</p>	<p>Drilling Fluid Water</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter 6 in. to 212 ft. Weight 19.45 lbs./ft. Hole Diameter 6 in. to 212 ft.</p> <p>Open Hole from 212 ft. to 212 ft.</p>	<p>Static Water Level 12 ft. from Land surface Date Measured 02/20/1996</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping 15 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p> <p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from 8 to 210 ft.</p> <p>Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																																
<p>Well Address 12631 5TH ST W DULUTH MN 55808</p>	<p>Geological Material</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td>SOFT</td> <td>0</td> <td>70</td> </tr> <tr> <td>RED/BRN</td> <td>MEDIUM</td> <td>70</td> <td>89</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>89</td> <td>100</td> </tr> <tr> <td>RED/BRN</td> <td>MEDIUM</td> <td>100</td> <td>122</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>122</td> <td>178</td> </tr> <tr> <td>RED/BRN</td> <td>MEDIUM</td> <td>178</td> <td>207</td> </tr> <tr> <td>BROWN</td> <td>SOFT</td> <td>207</td> <td>212</td> </tr> </tbody> </table>	Color	Hardness	From	To	BROWN	SOFT	0	70	RED/BRN	MEDIUM	70	89	BROWN	SOFT	89	100	RED/BRN	MEDIUM	100	122	BROWN	SOFT	122	178	RED/BRN	MEDIUM	178	207	BROWN	SOFT	207	212	<p style="text-align: center;"><i>N O R E M A R K S</i></p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Address Date 09/19/2007 System UTM - Nad83, Zone15, Meters X: 556211 Y: 5167782</p>	
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RED/BRN	MEDIUM	70	89																																
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RED/BRN	MEDIUM	178	207																																
BROWN	SOFT	207	212																																

<p>Pump <input type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP _____ Volts _____</p> <p>Length of drop Pipe _____ ft. Capacity _____ g.p.m. Type _____ Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p>Rasmussen Well Co. 38019 RASMUSSEN, R.</p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>569164</p>	
<p>County Well Index Online Report</p>	
<p>First Bedrock</p> <p>Last Strat Sand & larger-brown</p>	<p>Aquifer Quat. Buried Artes. Aquifer</p> <p>Depth to Bedrock ft.</p>
<p>Printed 6/29/2008 HE-01205-07</p>	

Minnesota Unique Well No.

656029

County St. Louis
 Quad West Duluth
 Quad ID 223B

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 03/26/2002
 Update Date 11/15/2007
 Received Date

Well Name VEIT COMPANIES		Well Depth 1258 ft.	Depth Completed 1258 ft.	Date Well Completed 05/09/2001
Township Range Dir Section Subsections Elevation 48 15 W 4 DAABAD Elevation Method 770 ft. 7.5 minute topographic map (+/- 5 feet)		Drilling Method Non-specified Rotary		
Well Address 1100 GARY ST W DULUTH MN 55808		Drilling Fluid Bentonite	Well Hydrofractured? From Ft. to Ft. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Geological Material		Use Industrial		
LAYERED SAND & CLAY	Color BROWN	Hardness SOFT	Casing Type Steel (black or low carbon)	Joint No Information
SAND & CLAY	RED	SOFT	Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CLAY & ROCKS (STICKY)	RED			
BOULDER	GRAY	HARD		
CLAY & ROCKS	RED	MEDIUM		
SILTY CLAY	RED	SOFT	Casing Diameter 6 in. to 867 ft.	Hole Diameter 10 in. to 30 ft. 8.75 in. to 867 ft.
CLAY & GRAVEL (STICKY)	GRAY		Weight 19.45 lbs/ft.	
SILTY CLAY & ROCKS	RED	MED-HRD	Open Hole from 867 ft. to 1258 ft.	
REGOLITH & ROCKS	WHT/BLK	HARD	Screen NO	Make Type
CLAY & ROCKS	RED/BRN	HARD	Diameter	Slot/Gauze Length Set Between
REGOLITH & ROCKS	VARIED	HARD		
GRANITE BOULDER	GRAY	HARD		
CLAY & ROCKS	RED	HARD		
REGOLITH	WHITE	MED-HRD		
CLAY & ROCKS	RED	HARD		
CLAY & ROCKS BRIGHT RED	RED	HARD		
SANDSTONE & CLAY	GREEN	HARD		
CLAY & ROCKS	RED	MEDIUM		
REGOLITH	WHITE	MEDIUM		
ROCKS & CLAY	RED/GRN	HARD		
BOULDER	GRN/BLK	HARD	Static Water Level	
CLAY & ROCKS	RED/GRN	HARD	ft. from Date Measured	
ROCK - GABRO	BLK/GRN	HARD	PUMPING LEVEL (below land surface)	
GABRO	BLK/GRN	HARD	ft. after hrs. pumping g.p.m.	
GABRO	GREEN	SFT-MED	Well Head Completion	
GABRO	GREEN	MEDIUM	Pitless adapter manufacturer Model	
GABRO	RED/GRN	SFT-MED	<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade	
GABRO	GREEN	MED-HRD	<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)	
GABRO	RED/GRN	HARD		
GABRO	GREEN	HARD		
REMARKS GAMMA LOGGED M.G.S. NO. 4139. DRY HOLE 20 GAL./DAY.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Grout Material: Bentonite from 0 to 30 ft. 3 bags		
Unique Number Verification Information from owner		Grout Material: High solids bentonite from 30 to 867 ft.		
Method Digitization (Screen) - Map (1:24,000)				
Date 09/08/2004				

System *UTM - Nad83, Zone 15, Meters* **X:** 558179 **Y:** 5168773

<p>Nearest Known Source of Contamination 100 feet South West direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Well Contractor Certification Petersen Well Co. 69183 PETERSEN, D. License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>656029 Printed 6/29/2008 HE-01205-07</p>	
<p>Cuttings Yes Borehole Geophysics Yes First Bedrock Last Strat</p>	<p>Aquifer Depth to Bedrock 457 ft.</p>
<p>County Well Index Online Report</p>	

SITE SUMMARY

Site Name: South Central College - North Mankato
1920 Lee Blvd.
North Mankato, MN 56003

Site Contact: Tim Zehnder, Fire & Rescue Program Manager
507-389-7329
tim.zehnder@southcentral.edu

Training Location: On site

Type of foam used in training: AFFF: All (3M use assumed)
AR-AFFF: All (3M use assumed)
Class A: All
Training Foam: Ansul Silv-ex

Foam training frequency: Monthly

Foam use per training event: 5 gallons

Spent foam destination: Ground, storm sewer

Annual foam use: AFFF: 5 gallons plus
AR-AFFF: 5 gallons plus
Class A: 10 gallons plus
Training Foam: 10 gallons plus

Nearest surface water: Intermittent stream approximately 1/4 mile southwest; Minnesota River, 1/2 to 1 mile south

Nearest wetland: 1/2 to 1 mile south

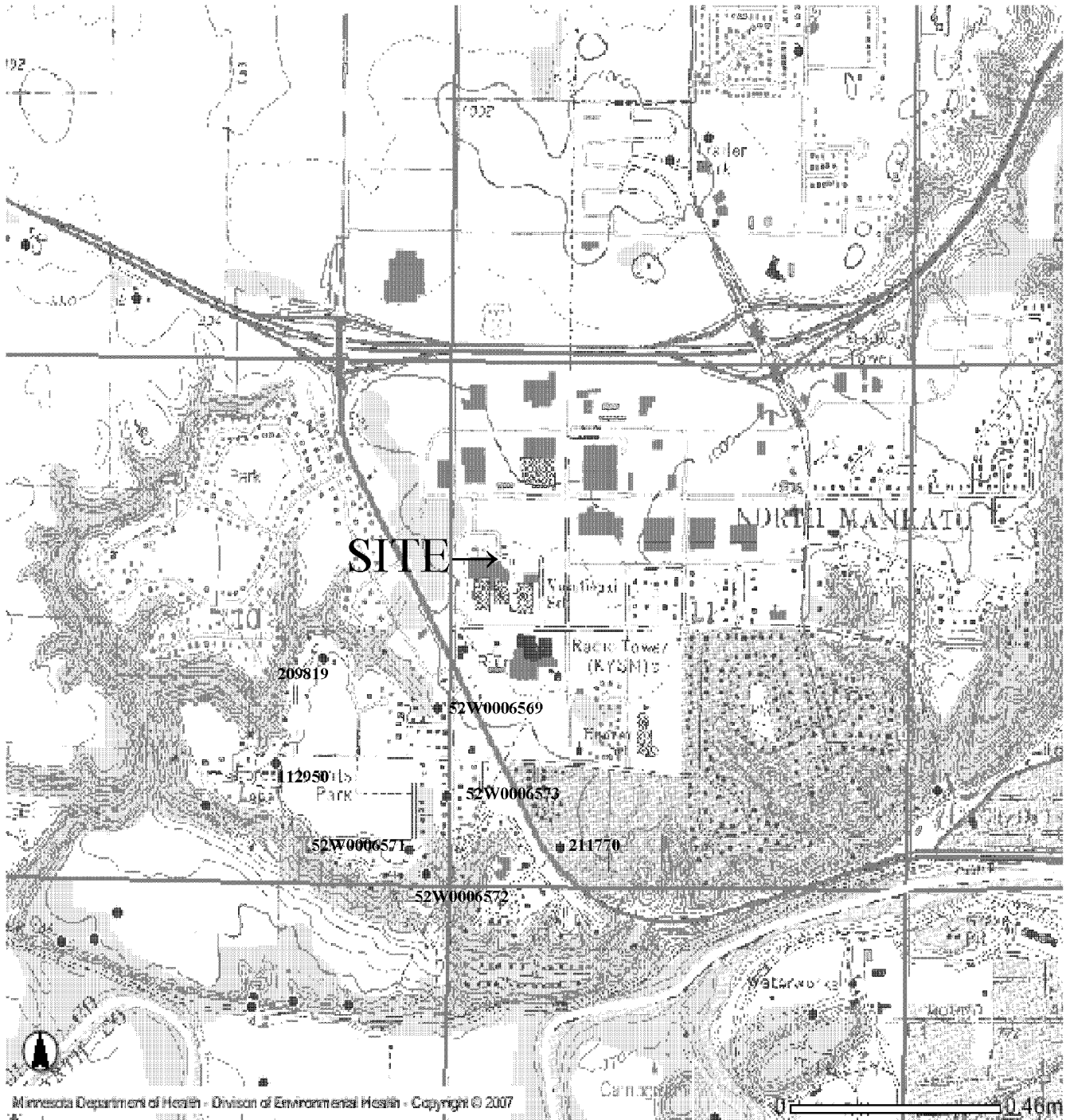
Karst Area: Site located in covered karst area

Nearest water well: 1/4 to 1/3 mile southwest

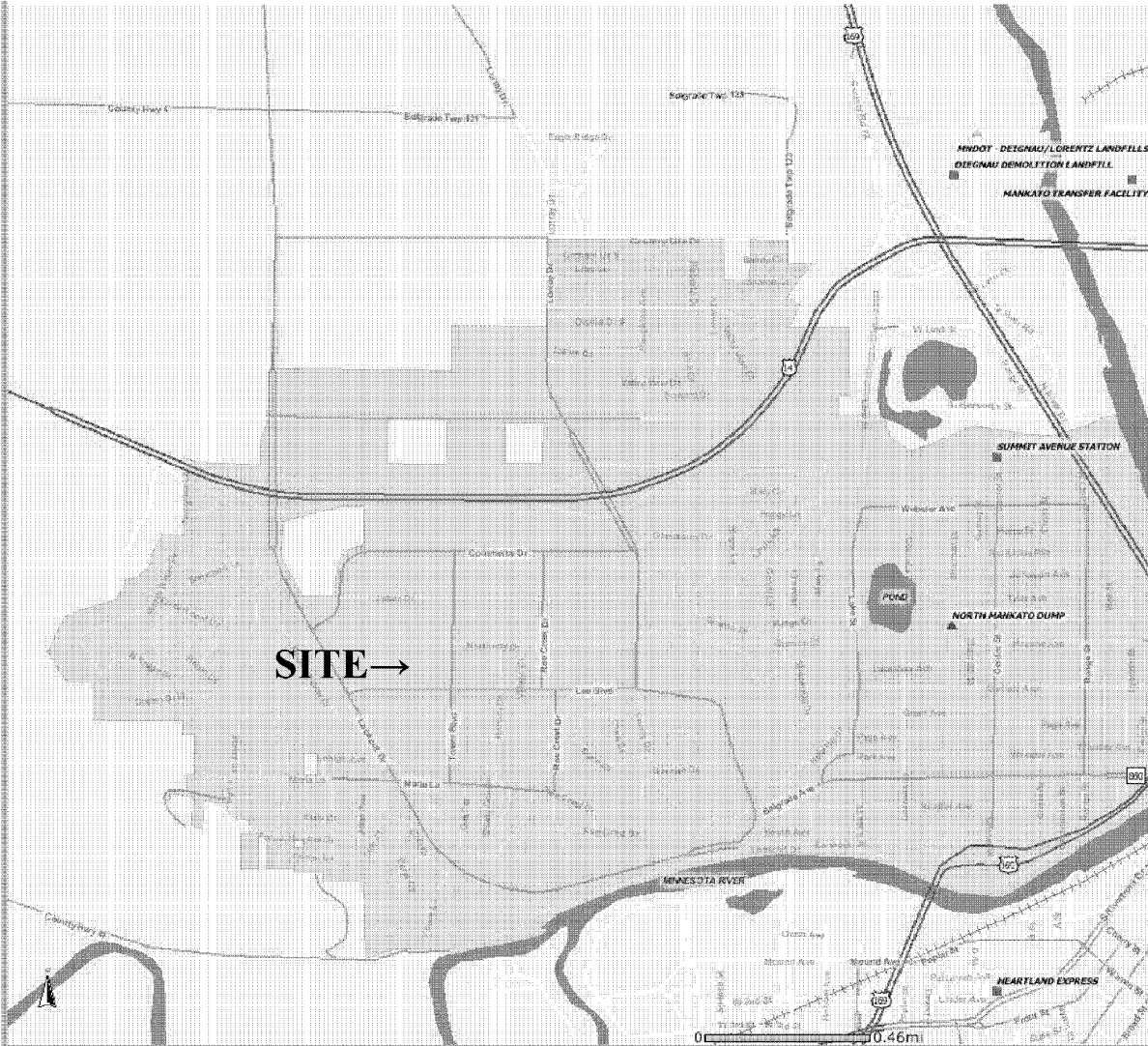
Nearest Wellhead Protection Area: None within one mile

SITE RANKING: 19

SOUTH CENTRAL COLLEGE, NORTH MANKATO CWI Well Map



South Central College North Mankato *What's In My Neighborhood*



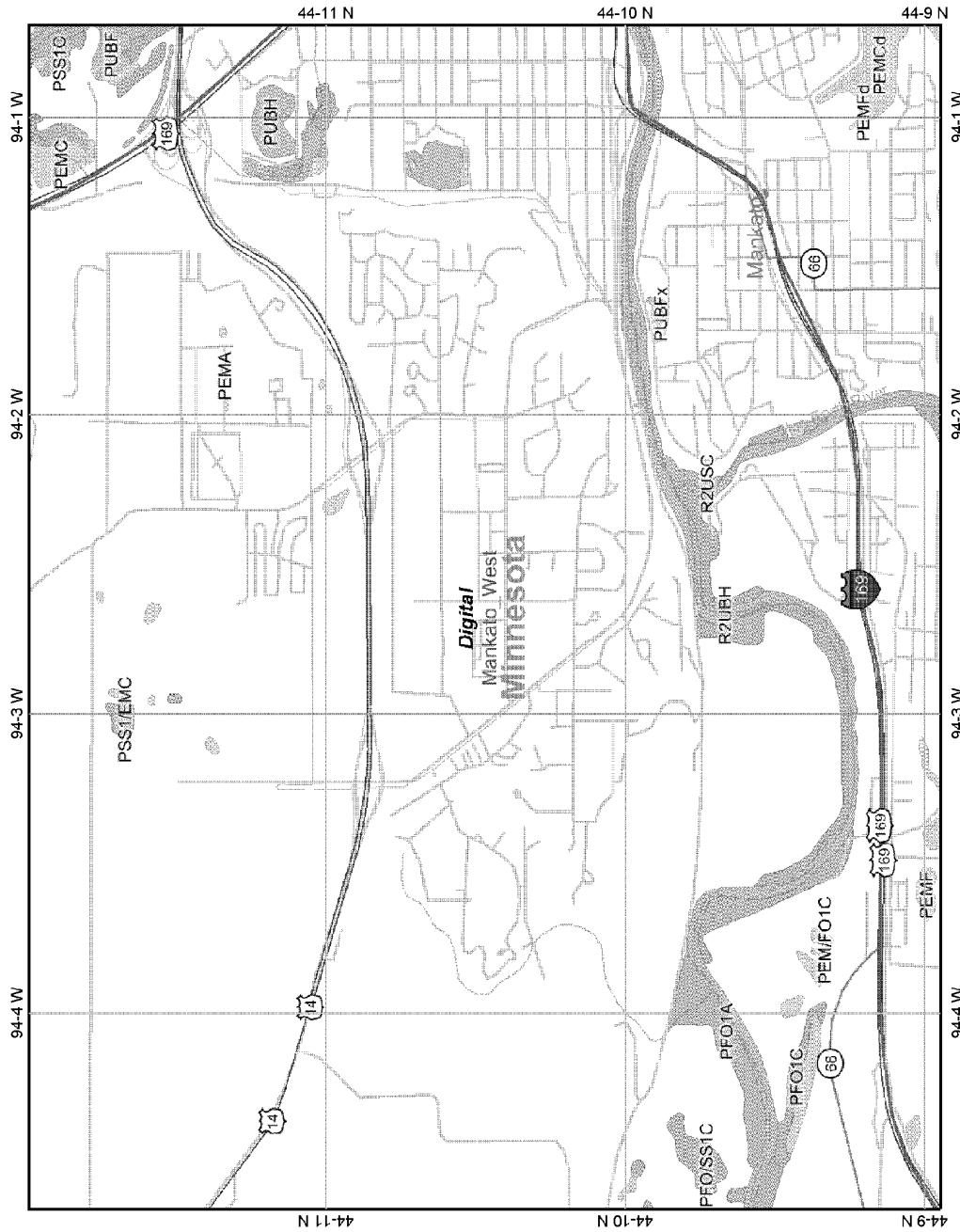
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 **Minnesota Pollution Control Agency**

Sites

- Deleted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLA
- Federal Superfund
- State Closed Landfill
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- ▲ RCRA Investigation & Cleanup
- ▲ State Assessment

South Central College, North Mankato Wetland Map



Map center: 44° 10' 28" N, 94° 2' 40" W

Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:39,537

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

112950

County Nicollet
 Quad Mankato West
 Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 07/30/1998
 Received Date

Well Name SCHMOLL, TOM Township Range Dir Section Subsections Elevation 990 ft. 108 27 W 10 DCBAAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 410 ft.	Depth Completed 410 ft.	Date Well Completed 07/15/1977
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
		Casing Diameter 5 in. to 266 ft.	Weight lbs./ft.	Hole Diameter
		Open Hole from 266 ft. to 410 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
		Set Between		
		Static Water Level ft. from Date Measured		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
Unique Number		Date N/A		
Verification Information from neighbor		System UTM - Nad83, Zone15, Meters X: 415546 Y: 4891234		
		Nearest Known Source of Contamination _ft _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Pump <input type="checkbox"/> Not installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Seppmann Well Co. 07160 License Business Name Lic. Or Reg. No. Name of Driller		
First Bedrock Cretaceous,Undiff. Aquifer Franconia Last Strat Franconia Depth to Bedrock 140 ft.		County Well Index Online Report		
		112950		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

211770

County Nicollet
 Quad Mankato West
 Quad ID 56A

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
 Update Date 01/06/1998
 Received Date

Well Name THOMAS Township Range Dir Section Subsections Elevation 108 27 W 11 CCDADD Elevation Method 995 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 310 ft. Depth Completed 310 ft. Date Well Completed 00/00/1957 Drilling Method --
Well Address MANKATO MN 56001		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material CLAY CLAY DOLOMITE BROWN CLAY LIMESTONE		Use Domestic Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Joint <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No
Color BROWN GRAY		Casing Diameter 4 in. to 151 ft. Weight lbs./ft.
Hardness 0 75 92 151		Open Hole from 151 ft. to 310 ft. Screen NO Make Type
From 0 75 92 151		Diameter Slot/Gauze Length Set Between
To 75 92 151 310		Static Water Level 265 ft. from Land surface Date Measured 1957 PUMPING LEVEL (below land surface) 279 ft. after hrs. pumping 12 g.p.m.
Method Digitized - scale 1:24,000 or larger (Digitizing Table) Date N/A X: 416539 Y: 4890975		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
Located Minnesota Geological Survey Unique Number Verification Information from neighbor System UTM - Nad83, Zone15, Meters		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
NO REMARKS		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material		

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>United States Geological Survey <u>USGS</u> <u>ADAMS, K.</u></p>	
<p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>211770</p>	<p>Printed 6/29/2008 HE-01205-07</p>

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 151 ft.

County Well Index Online Report

**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

52W0006569

County Nicollet
Quad Mankato West
Quad ID 56A

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		ft.	ft.		
108	27 W 10 DADADB	998 ft.			
Elevation Method		Drilling Method			
Calc from DEM (USGS 7.5 min or equiv.)					
Geological Material Color Hardness From To		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Use		From Ft. to Ft.	
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Diameter		Slot/Gauze	Length Set Between
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A System UTM - Nad83, Zone15, Meters Date N/A X: 416111 Y: 4891402</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
<p>First Bedrock Aquifer</p> <p>Last Strat Depth to Bedrock ft.</p>		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
		License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	52W0006569	Printed 6/29/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

52W0006571

County Nicollet
Quad Mankato West
Quad ID 56A

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		ft.	ft.		
108	27 W 10 DDDDBC	988 ft.			
Elevation Method		Drilling Method			
Calc from DEM (USGS 7.5 min or equiv.)					
Geological Material Color Hardness From To		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Use	From Ft. to Ft.		
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
		Casing Diameter	Weight	Hole Diameter	
		Open Hole from ft. to ft.			
		Screen Diameter	Slot/Gauze	Length	Set Between
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m Type Material			
First Bedrock Last Strat		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
		License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	52W0006571	Printed 6/29/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

52W0006572

County Nicollet
Quad Mankato West
Quad ID 56A

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		ft.	ft.		
108	27 W 10 DDDDCB	961 ft. Calc from DEM (USGS 7.5 min or equiv.)			
Elevation Method		Drilling Method			
Geological Material Color Hardness From To		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Use		From Ft. to Ft.	
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Diameter		Slot/Gauze	Length Set Between
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
<p align="center"><i>NO REMARKS</i></p> Located Minnesota Department of Health Method Digitization (Screen) - Map (1:24,000) Unique Number Verification N/A System UTM - Nad83, Zone15, Meters Date N/A X: 416071 Y: 4890894		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
First Bedrock Aquifer Last Strat Depth to Bedrock ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	52W0006572	Printed 6/29/2008 HE-01205-07
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**MINNESOTA
DEPARTMENT OF
HEALTH
WELL AND BORING
RECORD**

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Minnesota Unique Well No.

52W0006573

County Nicollet
Quad Mankato West
Quad ID 56A

*Minnesota Statutes Chapter
1031*

Well Name		Well Depth	Depth Completed	Date Well Completed	
Township Range Dir Section Subsections Elevation		ft.	ft.		
108	27 W 10 DDADAA	993 ft.			
Elevation Method		Drilling Method			
Calc from DEM (USGS 7.5 min or equiv.)					
Geological Material Color Hardness From To		Drilling Fluid		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Use		From Ft. to Ft.	
		Casing Type	Joint	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	Above/Below ft.
		Casing Diameter		Weight	Hole Diameter
		Open Hole from ft. to ft.			
		Screen Diameter		Slot/Gauze	Length Set Between
		Static Water Level ft. from Date Measured			
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
		Well Head Completion Pitless adapter manufacturer Model			
		<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
<p align="center"><i>NO REMARKS</i></p> <p>Located Minnesota Department of Health Unique Number Method Digitization (Screen) - Map (1:24,000) Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 416143 Y: 4891134</p>		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Nearest Known Source of Contamination _feet _direction _type			
		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Pump <input type="checkbox"/> Not Installed Date Installed			
		Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			
<p>First Bedrock Aquifer</p> <p>Last Strat Depth to Bedrock ft.</p>		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Well Contractor Certification			
		License Business Name Lic. Or Reg. No. Name of Driller			

County Well Index Online Report	52W0006573	Printed 6/29/2008 HE-01205-07
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SITE SUMMARY

Site Name: Flint Hills/Pine Bend Refinery

Fire Department: Flint Hills/Pine Bend Refinery Fire Department
Rosemount, MN

Site Contact: Pete Herpst, Deputy Fire Chief
651-437-0643
pete.herpst@fhr.com

Training Location: Fire training grounds, southwest corner of the refinery.

Type of foam used in training: Ansul Thunderstorm AFFF (currently)
3M AFFF (Formerly used for training, still used for fire response;
have stockpile of approximately 50,000 gallons of 3M foam.)

Foam training frequency: Approximately 20 to 25 times during the training season, April through November.

Foam use per training event: 5 to 10 gallons

Spent foam destination: Lined holding area, pumped to on-site wastewater treatment facility.

Annual foam use: Ansul Thunderstorm AFFF - up to 300 gallons for training

Nearest surface water: Unnamed ponds approximately 1 mile north-northeast

Nearest wetland: 1/4 to 1/3 mile east

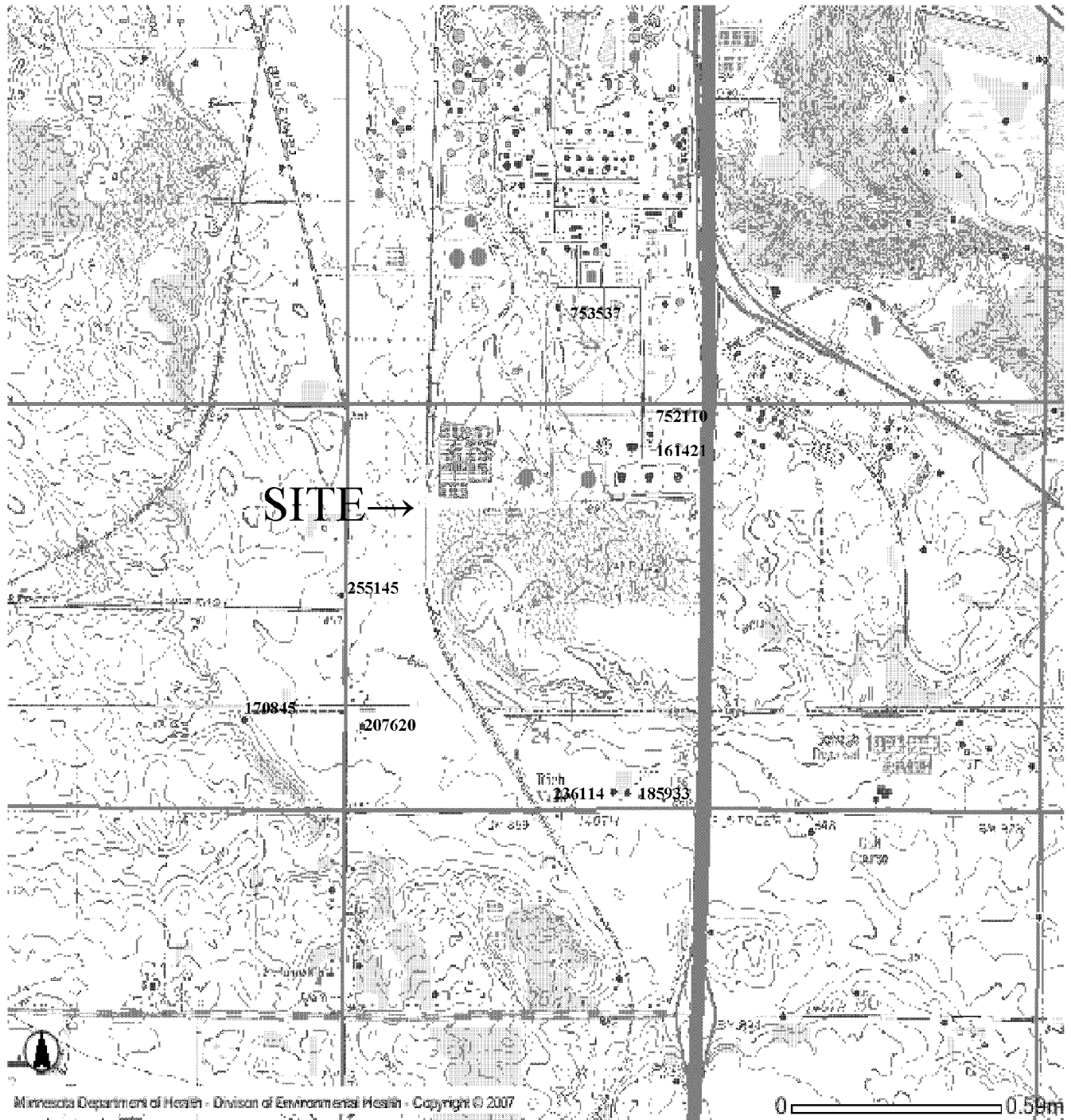
Karst Area: Training site is located in a transition or covered karst area

Nearest water well: Approximately 1/4 mile southwest

Nearest Wellhead Protection Area: None within one mile

SITE RANKING: 23

FLINT HILLS REFINERY - ROSEMOUNT CWI Well Map



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0 0.59mi

Flint Hills Refinery *What's In My Neighborhood* Map

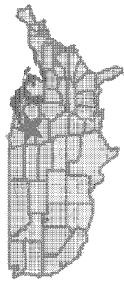
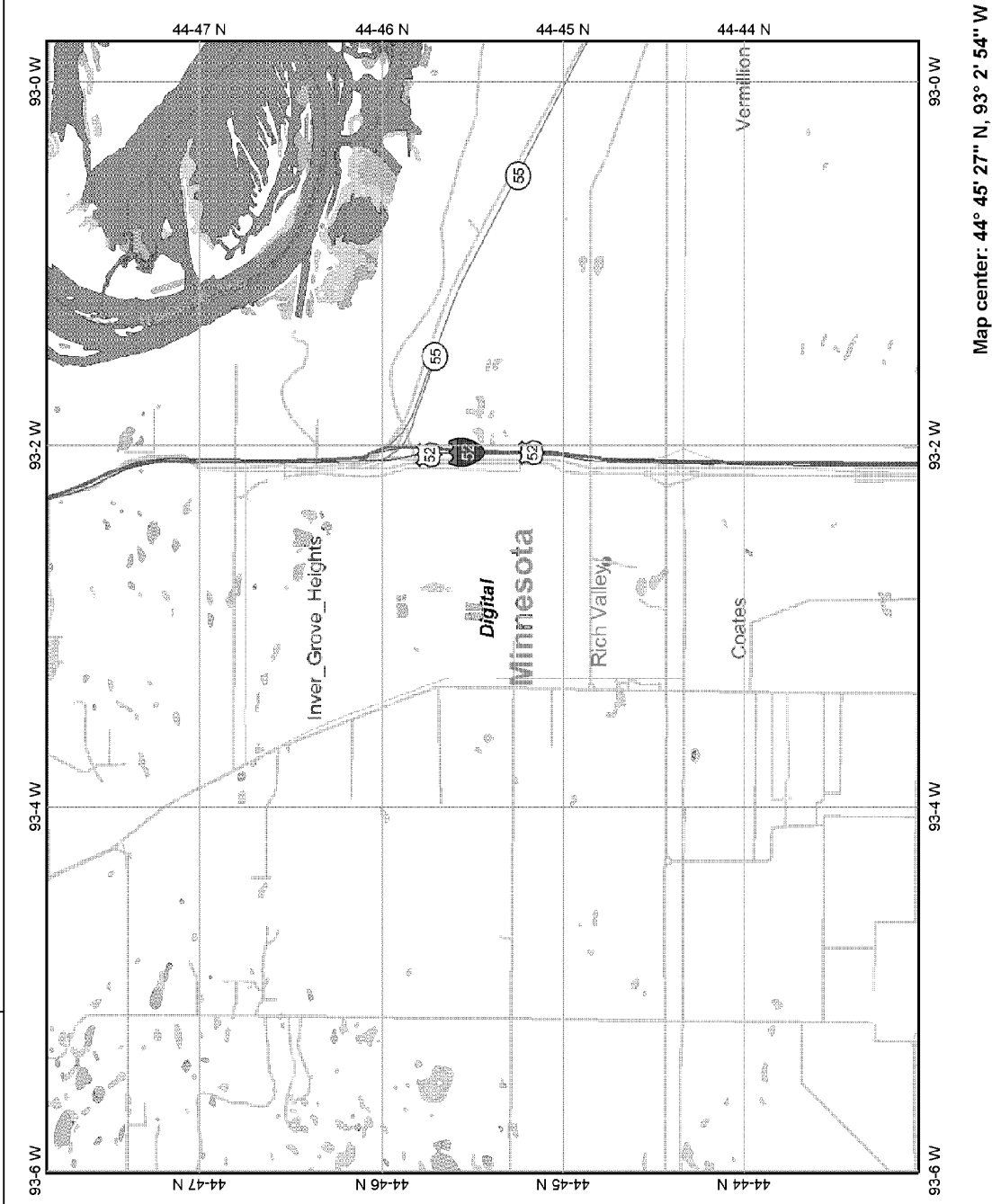


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 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Flint Hills Refinery Wetland Map



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:62,288

Map center: 44° 45' 27" N, 93° 2' 54" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Minnesota Unique Well No.

161421

County **Dakota**
 Quad **Inver Grove Heights**
 Quad ID **103D**

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date **09/19/1989**
 Update Date **06/29/2007**
 Received Date

Well Name KOCH REFINING NO.8 Township Range Dir Section Subsections Elevation 912 ft. 115 19 W 24 AABDBD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 1004 ft. Depth Completed 1004 ft. Date Well Completed 06/00/1982 Drilling Method Cable Tool
Well Address PINE BEND MN 55068		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material DRIFT DRIFT LIMEROCK SHAKOPEE JORDAN JORDAN ST. LAWRENCE ST. LAWRENCE ST. LAWRENCE FRANCONIA IRONTON-GALESVILLE IRONTON-GALESVILLE EAU CLAIRE SHALE MT. SIMON HINCKLEY		Use Industrial Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Joint No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Casing Diameter 24 in. to 123 ft. lbs./ft. Hole Diameter 24 in. to 772 ft. 18 in. to 772 ft. lbs./ft. Hole Diameter 18 in. to 1004 ft. Open Hole from 772 ft. to 1004 ft. Screen NO Make Type Diameter Slot/Gauze Length Set Between
Static Water Level 245 ft. from Land surface Date Measured 06/00/1982 PUMPING LEVEL (below land surface) 350 ft. after 88 hrs. pumping 1600 g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS M.G.S. NO. 2134. GAMMA LOGGED 6-27-2007. LOGGED TO 626 FT.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from to ft.
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone 15, Meters X: 497043 Y: 4956231		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<p>Pump <input type="checkbox"/> Not Installed Date Installed <u>07/12/1982</u> Manufacturer's name <u>BYRON JACKSON</u> Model number <u> </u> HP <u> </u> Volts Length of drop Pipe <u> </u> ft. Capacity <u>1600</u> g.p.m. Type <u>Turbine</u> Material <u>Steel</u> (black or low carbon)</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>Cuttings Yes Borehole Geophysics Yes First Bedrock <u>Prairie Du Chien Group</u> Last Strat <u>Mt. Simon</u></p>	<p>Aquifer <u>Mt. Simon</u> Depth to Bedrock <u>116 ft.</u></p>
<p>County Well Index Online Report 161421</p>	
<p>Printed 6/15/2008 HE-01205-07</p>	

Minnesota Unique Well No.

170845

County Dakota
 Quad Coates
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/30/1990
 Update Date 03/24/2006
 Received Date

Well Name KRAFT, GILBERT Township Range Dir Section Subsections Elevation 893 ft. 115 19 W 23 DCAACA Elevation Method 7.5 minute topographic map (+/- 5 feet)					Well Depth 126 ft.	Depth Completed 126 ft.	Date Well Completed 09/22/1980		
Drilling Method Non-specified Rotary					Drilling Fluid --				
Use Domestic					Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.				
Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.					Casing Diameter 4 in. to 80 ft. Weight lbs./ft. Hole Diameter 4 in. to 126 ft.				
Open Hole from 80 ft. to 126 ft.					Screen NO Make Type				
Geological Material					Diameter Slot/Gauze Length Set Between				
GRAVEL	BROWN	SOFT	0	20					
CLAY	BROWN	HARD	20	60					
SANDROCK	GRAY	HARD	60	80					
LIMEROCK	YELLOW	HARD	80	126					
Static Water Level 44 ft. from Land surface Date Measured 09/22/1980					PUMPING LEVEL (below land surface) 44 ft. after 24 hrs. pumping 15 g.p.m.				
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Bentonite from to 80 ft.				
NO REMARKS					Nearest Known Source of Contamination 80 feet W direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)					Pump <input checked="" type="checkbox"/> Not Installed Date Installed 09/22/1980 Manufacturer's name FAIRBANKS Model number 7511 HP 0.75 Volts 230 Length of drop Pipe 63 ft. Capacity 10 g.p.m. Type Submersible Material Galvanized				
Unique Number Verification Information from owner Date N/A					Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
System UTM - Nad83, Zone15, Meters X: 495211 Y: 4955119					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock St.Peter Aquifer Prairie Du Chien Group					Well Contractor Certification Maher Well Co. 19301 MANN, G. License Business Name Lic. Or Reg. No. Name of Driller				
Last Strat Prairie Du Chien Group Depth to Bedrock 60 ft.					County Well Index Online Report				
170845					Printed 6/15/2008 HE-01205-07				

Minnesota Unique Well No.

185933

County Dakota
 Quad Coates
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/30/1990
 Update Date 03/24/2006
 Received Date

Well Name MCCARTHY, MIKE Township Range Dir Section Subsections Elevation 855 ft. 115 19 W 24 DDCCDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 110 ft. Depth Completed 110 ft. Date Well Completed 06/24/1981
Well Address 3229 140TH ST E ROSEMOUNT MN 55068		Drilling Method Non-specified Rotary Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Domestic
Geological Material SAND & GRAVEL CLAY LIMEROCK		Color BROWN Hardness MEDIUM From To 0 50 50 85 85 110
Static Water Level 45 ft. from Land surface Date Measured 06/24/1981 PUMPING LEVEL (below land surface) 45 ft. after 24 hrs. pumping 15 g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to 88 ft.
Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table) Unique Number Verification Information Date N/A System UTM - Nad83, Zone15, Meters X: 496940 Y: 4954830		Nearest Known Source of Contamination 75 feet E direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 85 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Maher Well Co. 19301 MANN, G. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		185933 Printed 6/15/2008 HF-01205-07

Minnesota Unique Well No.

207620

County Dakota
 Quad Coates
 Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 09/15/1988
 Update Date 03/24/2006
 Received Date

Well Name		Well Depth		Depth Completed		Date Well Completed	
Township Range Dir Section Subsections Elevation		275 ft.		275 ft.		09/10/1971	
115 19 W 24 CCBDC Elevation Method		--		Drilling Method --			
965 ft. 7.5 minute topographic map (+/- 5 feet)		Drilling Fluid		Well Hydrofractured?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		--		From Ft. to Ft.			
Use		Domestic					
Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/>		Joint No Information <input type="checkbox"/> Yes <input type="checkbox"/>		Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/>			
No Above/Below 0 ft.							
Casing Diameter		Weight		Hole Diameter			
0 in. to 90 ft.		lbs./ft.					
Open Hole from 90 ft. to 275 ft.							
Screen NO		Make		Type			
Diameter		Slot/Gauze		Length		Set Between	
Static Water Level		Date Measured					
45 ft. from L and surface		09/10/1971					
PUMPING LEVEL (below land surface)							
ft. after hrs. pumping g.p.m.							
Well Head Completion		Well Cased?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Pitless adapter manufacturer Model							
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade							
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)							
Grouting Information		Well Cased?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Nearest Known Source of Contamination		Well disinfected upon completion?		<input type="checkbox"/> Yes <input type="checkbox"/> No			
_feet _direction _type							
Pump <input type="checkbox"/> Not Installed <input type="checkbox"/> Date Installed		Manufacturer's name		Model number		HP <input type="checkbox"/> Volts	
Length of drop Pipe _ft. Capacity _g.p.m. Type						Material	
Located Minnesota Geological Survey Table		Method Digitized - scale 1:24,000 or larger (Digitizing Table)		Date N/A			
Unique Number Verification N/A		X: 495743		Y: 4955093			
System UTM - Nad83, Zone 15, Meters							
REMARKS		DRILLED BY GENZ-RYAN.					

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>First Bedrock Prairie Du Chien Group</p> <p>Last Strat Jordan</p>	<p>Aquifer Prairie Du Chien-Jordan</p> <p>Depth to Bedrock 90 ft.</p>
<p>County Well Index Online Report</p>	
<p>License Business Name Lic. Or Reg. No. Name of Driller</p> <p>207620</p>	<p>Printed 6/15/2008 HE-01205-07</p>

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		236114	Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.

255145

County Dakota
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 04/22/2003
 Update Date 12/04/2006
 Received Date

<p>Well Name MGS-20</p> <p>Township Range Dir Section Subsections Elevation 866 ft. 115 19 W 23 ADDD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 50 ft. Depth Completed 50 ft. Date Well Completed 05/26/1999</p> <p>Drilling Method Power Auger</p>																																													
<p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;"></th> <th style="width:10%; text-align: center;">Color</th> <th style="width:10%; text-align: center;">Hardness</th> <th style="width:10%; text-align: center;">From</th> <th style="width:10%; text-align: center;">To</th> </tr> </thead> <tbody> <tr> <td>TOPSOIL LOESS, GRAVELLY AT BASE</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> </tr> <tr> <td>MED SAND W/ SM GRANULES FEW SM PEB</td> <td></td> <td></td> <td style="text-align: center;">5</td> <td style="text-align: center;">20</td> </tr> <tr> <td>FINE-MED SAND NO PEBBLES</td> <td></td> <td></td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> </tr> <tr> <td>COARSE SAND SOME GRANULES SM. PEBB</td> <td></td> <td></td> <td style="text-align: center;">30</td> <td style="text-align: center;">42</td> </tr> <tr> <td>ABOVE BUT MORE GRANULES SM PEBBLES</td> <td></td> <td></td> <td style="text-align: center;">42</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>		Color	Hardness	From	To	TOPSOIL LOESS, GRAVELLY AT BASE			0	5	MED SAND W/ SM GRANULES FEW SM PEB			5	20	FINE-MED SAND NO PEBBLES			20	30	COARSE SAND SOME GRANULES SM. PEBB			30	42	ABOVE BUT MORE GRANULES SM PEBBLES			42	50	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Scientific Investigation</p> <p>Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.</p> <p>Casing Diameter Weight Hole Diameter</p> <p>Open Hole from ft. to ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;"></th> <th style="width:20%; text-align: center;">Make</th> <th style="width:20%; text-align: center;">Type</th> <th style="width:20%;"></th> <th style="width:20%;"></th> </tr> <tr> <th style="text-align: center;">Diameter</th> <th style="text-align: center;">Slot/Gauze</th> <th style="text-align: center;">Length</th> <th style="text-align: center;">Set Between</th> <th></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level ft. from Date Measured</p> <p>PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>		Make	Type			Diameter	Slot/Gauze	Length	Set Between						
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification N/A Date N/A</p> <p>System UTM - Nad83, Zone15, Meters X: 495647 Y: 4955612</p>	<p>Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																													
	<p>Nearest Known Source of Contamination _feet _direction _type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																													
	<p>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</p>																																													
	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																													
<p>First Bedrock Aquifer Last Strat Depth to Bedrock ft.</p>	<p>Well Contractor Certification <u>American Engineering Testing</u> <u>M0171</u> License Business Name Lic. Or Reg. No. Name of Driller</p>																																													
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">255145</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/15/2008 HE-01205-07</p>																																													

First Bedrock Last Strat	Aquifer Depth to Bedrock ft.	Well Contractor Certification	
		License Business Name	Lic. Or Reg. No. Name of Driller
County Well Index Online Report		753537	Printed 6/15/2008 HE-01205-07

SITE SUMMARY

Site Name: Marathon Refinery

Fire Department: Marathon Refinery Department
St. Paul Park, MN

Site Contact: Steve Crisp, Deputy Fire Chief
651-458-6461
slcrisp@marathonoil.com

Training Location: Refinery fire training grounds.

Type of foam used in training: Switched from 3M to Ansul Thunderstorm AR-AFFF foam in ~2000.

Foam training frequency: Semi-Annually

Foam use per training event: 50 to 100 gallons

Spent foam destination: To the ground and to an on-site septic.

Annual foam use: Use ~250 gallon foam for training; non-training foam use varies.

Nearest surface water: Mississippi River adjacent to the west

Nearest wetland: Adjacent to the south

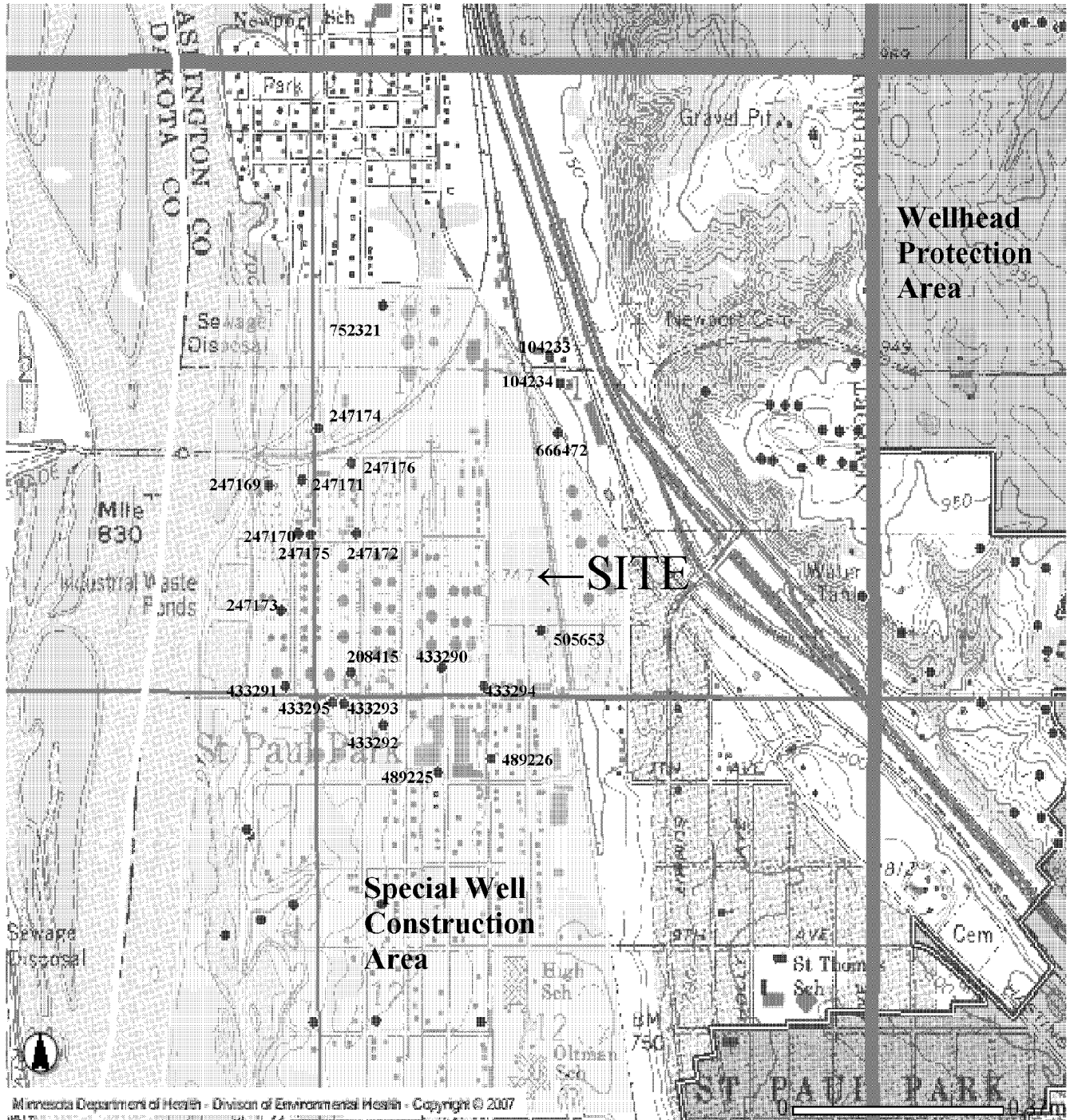
Karst Area: Site appears to be located in an active karst area

Nearest water well: On site

Nearest Wellhead Protection Area: 1/2 to 1 mile east

SITE RANKING: 30

MARATHON PETROLEUM REFINERY CWI Well Map















Marathon Refinery *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

Sites

-  Deleted State Superfund
-  Permitted Solid Waste
-  Unpermitted Dumps
-  NFRAP
-  State Superfund
-  CERCLA
-  Federal Superfund
-  State Closed Landfills
-  Voluntary Investigation & Cleanup
-  RCRA TSD Facilities
-  RCRA Investigation & Cleanup
-  State Assessment

Minnesota Unique Well No.

104233

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/01/1989
 Update Date 01/18/1996
 Received Date

<p>Well Name QUADE TRUCKING WELL NO.2 Township Range Dir Section Subsections Elevation 749 ft. 27 22 W 1 BDDCAD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 260 ft. Depth Completed 260 ft. Date Well Completed 10/19/1977</p> <p>Drilling Method Non-specified Rotary</p>																																				
<p>Well Address 61 HY ST PAUL PARK MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Color</th> <th style="text-align: left;">Hardness</th> <th style="text-align: left;">From</th> <th style="text-align: left;">To</th> </tr> </thead> <tbody> <tr> <td>GRAVEL</td> <td>BROWN</td> <td>0</td> <td>6</td> </tr> <tr> <td>LIME ROCK</td> <td>YELLOW</td> <td>6</td> <td>180</td> </tr> <tr> <td>SANDROCK</td> <td>GRAY</td> <td>180</td> <td>260</td> </tr> </tbody> </table>	Color	Hardness	From	To	GRAVEL	BROWN	0	6	LIME ROCK	YELLOW	6	180	SANDROCK	GRAY	180	260	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Weight</th> <th style="text-align: left;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 232 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from 232 ft. to 260 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Screen NO</th> <th style="text-align: left;">Make</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Diameter</th> <th style="text-align: left;">Slot/Gauze</th> <th style="text-align: left;">Length</th> <th style="text-align: left;">Set Between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Static Water Level 60 ft. from Land surface Date Measured 10/19/1977</p> <p>PUMPING LEVEL (below land surface) 60 ft. after hrs. pumping 15 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 232 ft.	lbs./ft.		Screen NO	Make	Type				Diameter	Slot/Gauze	Length	Set Between				
	Color	Hardness	From	To																																	
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<p>REMARKS WELL AT RED DOG ACODANCE.</p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 500346 Y: 4966888</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Nearest Known Source of Contamination 80 feet W direction Septic tank/drain field type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/11/1977 Manufacturer's name FAIRBANKS Model number 4C7511 HP 0.75 Volts 230 Length of drop Pipe 105 ft. Capacity 75 g.p.m Type Submersible Material Galvanized</p>																																				
<p>First Bedrock Prairie Du Chien Group Aquifer Jordan Last Strat Jordan Depth to Bedrock 6 ft.</p>	<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Maher Well Co. 19301 RANISATE, J. License Business Name Lic. Or Reg. No. Name of Driller</p>																																				
<p>County Well Index Online Report</p>	<p style="text-align: center; font-size: 1.2em;">104233</p> <p style="text-align: right;">Printed 6/29/2008 HE-01205-07</p>																																				

Minnesota Unique Well No.

104234

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 03/01/1989
 Update Date 01/18/1996
 Received Date

<p>Well Name WAREHOUSE NO. 1 Township Range Dir Section Subsections Elevation 751 ft. 27 22 W 1 CAAAB Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<p>Well Depth 240 ft. Depth Completed 240 ft. Date Well Completed 10/25/1977</p> <p>Drilling Method Non-specified Rotary</p>																																								
<p>Well Address 61 HY ST PAUL PARK MN</p> <p>Geological Material</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:10%;">Color</th> <th style="width:10%;">Hardness</th> <th style="width:10%;">From</th> <th style="width:10%;">To</th> </tr> </thead> <tbody> <tr> <td>SAND & GRAVEL</td> <td>BROWN</td> <td></td> <td>0</td> <td>10</td> </tr> <tr> <td>LIMEROCK</td> <td>YELLOW</td> <td>HARD</td> <td>10</td> <td>170</td> </tr> <tr> <td>SANDROCK</td> <td>GRAY</td> <td>MEDIUM</td> <td>170</td> <td>240</td> </tr> </tbody> </table>		Color	Hardness	From	To	SAND & GRAVEL	BROWN		0	10	LIMEROCK	YELLOW	HARD	10	170	SANDROCK	GRAY	MEDIUM	170	240	<p>Drilling Fluid --</p> <p>Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</p> <p>Use Domestic</p> <p>Casing Type Steel (black or low carbon) Joint Welded <input type="checkbox"/> Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Casing Diameter</th> <th style="width:30%;">Weight</th> <th style="width:40%;">Hole Diameter</th> </tr> </thead> <tbody> <tr> <td>4 in. to 199 ft.</td> <td>lbs./ft.</td> <td></td> </tr> </tbody> </table> <p>Open Hole from 199 ft. to 240 ft.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Screen NO</th> <th style="width:15%;">Make</th> <th style="width:15%;">Type</th> <th style="width:15%;">Diameter</th> <th style="width:15%;">Slot/Gauze</th> <th style="width:15%;">Length</th> <th style="width:15%;">Set Between</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Static Water Level 60 ft. from Land surface Date Measured 10/25/1977</p> <p>PUMPING LEVEL (below land surface) 60 ft. after hrs. pumping 15 g.p.m.</p> <p>Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</p>	Casing Diameter	Weight	Hole Diameter	4 in. to 199 ft.	lbs./ft.		Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between							
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	4 in. to 199 ft.	lbs./ft.																																							
	Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between																																		
	<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitized - scale 1:24,000 or larger (Digitizing Table)</p> <p>Unique Number Date N/A</p> <p>Verification Information from owner</p> <p>System UTM - Nad83, Zone15, Meters X: 500375 Y: 4966823</p>	<p>Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Grout Material: Neat Cement from 0 to 179 ft. 2.3 yds.</p> <p>Nearest Known Source of Contamination 80 feet W direction Septic tank/drain field type</p> <p>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed 11/11/1977 Manufacturer's name FAIRBANKS Model number 4C10014 HP 1 Volts 230 Length of drop Pipe 105 ft. Capacity 15 g.p.m. Type Submersible Material Galvanized</p>																																							
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Well Contractor Certification Maher Well Co. 19301 RANISATE, J. License Business Name Lic. Or Reg. No. Name of Driller</p>		<p>First Bedrock Prairie Du Chien Group Aquifer Jordan</p> <p>Last Strat Jordan Depth to Bedrock 10 ft.</p>																																							
<p>County Well Index Online Report</p>		<p style="text-align: center; font-size: 1.2em;">104234</p> <p style="text-align: right; font-size: 0.8em;">Printed 6/29/2008 HE-01205-07</p>																																							

Minnesota Unique Well No.

208415

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031**

Entry Date 03/01/1989
 Update Date 09/09/2002
 Received Date

Well Name NORTHWEST REFINERY 9 Township Range Dir Section Subsections Elevation 27 22 W 1 CCCDCB Elevation Method 723 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 260 ft. Depth Completed 249 ft. Date Well Completed 01/08/1969 Drilling Method Cable Tool
Well Address ST PAUL PARK MIN		Drilling Fluid -- Use Domestic
Geological Material BLACK DIRT LIMEROCK LIMEROCK LIMESTONE LIMESTONE LIMESTONE JORDAN SANDSTONE SAND SHALE		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Color BLACK GREEN		Casing Type Steel (black or low carbon) <input type="checkbox"/> No Information <input type="checkbox"/> Yes <input type="checkbox"/> No Joint <input type="checkbox"/> No <input type="checkbox"/> Above/Below 0 ft. <input type="checkbox"/> Yes <input type="checkbox"/> No Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No
Hardness M.HARD SOFT HARD SOFT SOFT MEDIUM		Casing Diameter 4 in. to 180 ft. Weight lbs./ft. Hole Diameter 8 in. to 180 ft. 4 in. to 260 ft.
From 0 4 74 100 147 152 165 165 215 215 243		Open Hole from 180 ft. to 249 ft. Screen NO Make Type
To 4 74 100 147 152 165 215 243 260		Diameter Slot/Gauze Length Set Between
Static Water Level 30 ft. from Land surface Date Measured 01/08/1969 PUMPING LEVEL (below land surface) 70 ft. after hrs. pumping 35 g.p.m.		Well Head Completion Pitless adapter manufacturer Model Casing Protection <input type="checkbox"/> 12 in. above grade At-grade (Environmental Wells and Borings ONLY)
REMARKS M.G.S. NO. 521. OLDER P.A. NO. 68-1472.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Unique Number Verification Information from owner System UTM - Nad83, Zone 15, Meters		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Method Digitized - scale 1:24,000 or larger (Digitizing Table) Date N/A X: 499782 Y: 4966104		

<p>Pump <input checked="" type="checkbox"/> Not Installed Date Installed _____</p> <p>Manufacturer's name _____ Model number _____ HP 3 Volts _____</p> <p>Length of drop Pipe __ft. Capacity __g.p.m. Type Submersible Material _____</p>	
<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p><u>McCarthy Well Co.</u> 27022</p> <p>License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>208415</p>	
<p>Printed 6/29/2008 HE-01205-07</p>	

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat St. Lawrence
Aquifer Jordan-St. Lawrence
Depth to Bedrock 4 ft.

County Well Index Online Report

Minnesota Unique Well No.

247169

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
 Update Date 04/15/1996
 Received Date

<p>Well Name NORTHWEST REFINERY 2 Township Range Dir Section Subsections Elevation 724 ft. 27 22 W 2 DADBDC Elevation Method 7.5 minute topographic map (-/5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 100 ft.</td> <td style="width:33%;">Depth Completed 100 ft.</td> <td style="width:33%;">Date Well Completed 00/00/1944</td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> </table>	Well Depth 100 ft.	Depth Completed 100 ft.	Date Well Completed 00/00/1944	Drilling Method --																																				
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<p>Well Address ST PAUL PARK MN</p> <p>Geological Material NO RECORD</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Color</td> <td style="width:25%;">Hardness</td> <td style="width:25%;">From</td> <td style="width:25%;">To</td> </tr> <tr> <td></td> <td></td> <td>0</td> <td>100</td> </tr> </table>	Color	Hardness	From	To			0	100	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid --</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Abandoned Status Sealed</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter 4 in. to 72 ft.</td> <td style="width:33%;">Weight lbs./ft.</td> <td style="width:33%;">Hole Diameter 4 in. to 100 ft.</td> </tr> <tr> <td colspan="3">Open Hole from 72 ft. to 100 ft.</td> </tr> <tr> <td style="width:33%;">Screen NO</td> <td style="width:33%;">Make</td> <td style="width:33%;">Type</td> </tr> <tr> <td style="width:33%;">Diameter</td> <td style="width:33%;">Slot/Gauze</td> <td style="width:33%;">Length</td> </tr> <tr> <td colspan="3">Set Between</td> </tr> <tr> <td colspan="3">Static Water Level 50 ft. from Land surface Date Measured 1944</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Abandoned Status Sealed		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/>		Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter 4 in. to 72 ft.	Weight lbs./ft.	Hole Diameter 4 in. to 100 ft.	Open Hole from 72 ft. to 100 ft.			Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between			Static Water Level 50 ft. from Land surface Date Measured 1944			PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 02/13/2004 System UTM - Nad83, Zone15, Meters X: 499549 Y: 4966569</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information Well Grouted?</td> <td style="width:50%;"><input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination _feet _direction _type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td>Manufacturer's name</td> <td>Model number ___ HP 0 Volts</td> </tr> <tr> <td>Length of drop Pipe _ft.</td> <td>Capacity _g.p.m Type Material</td> </tr> </table>	Grouting Information Well Grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Nearest Known Source of Contamination _feet _direction _type		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name	Model number ___ HP 0 Volts	Length of drop Pipe _ft.	Capacity _g.p.m Type Material																												
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Length of drop Pipe _ft.	Capacity _g.p.m Type Material																																								
<p>First Bedrock Last Strat No Record</p> <p>Aquifer Depth to Bedrock ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>		Yes <input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller																																	
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<p>County Well Index Online Report</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">247169</td> <td style="width:50%; text-align: right;">Printed 6/29/2008 HE-01205-07</td> </tr> </table>	247169	Printed 6/29/2008 HE-01205-07																																						
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Minnesota Unique Well No.

247170

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
 Update Date 01/18/1996
 Received Date

Well Name NORTHWEST REFINERY 3 Township Range Dir Section Subsections Elevation 726 ft. 27 22 W 2 DADDDC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 250 ft.	Depth Completed 250 ft.	Date Well Completed 00/00/1953		
		Drilling Method Cable Tool				
Well Address ST PAUL PARK MN Geological Material DRIFT 0 53 SHAKOPEE 53 165 JORDAN 165 250		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.			
		Use Industrial				
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.				
		Casing Diameter		Weight	Hole Diameter	
		16 in. to 53 ft.		lbs./ft.	20 in. to 53 ft.	
		12 in. to 110 ft.		lbs./ft.	15 in. to 250 ft.	
		Open Hole from 110 ft. to 250 ft.				
		Screen NO Make Type				
		Diameter		Slot/Gauze	Length	Set Between
		Static Water Level 64 ft. from Land surface Date Measured 1953				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.						
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
REMARKS KEYS REWORKED WELL IN AUGUST 1971.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 110 ft. 0 bags				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination ___feet ___direction ___type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Unique Number Verification Information from owner Date 02/13/2004		Pump <input checked="" type="checkbox"/> Not Installed Date Installed 08/00/1971 Manufacturer's name PEERLESS Model number ___ HP 60 Volts 440 Length of drop Pipe 200 ft. Capacity 1000 g.p.m. Type Turbine Material Steel (black or low carbon)				
System UTM - Nad83, Zone15, Meters X: 499633 Y: 4966450		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Prairie Du Chien Group Aquifer Multiple Last Strat Jordan Depth to Bedrock 53 ft.		Well Contractor Certification Keys Well Co. 62012 License Business Name Lic. Or Reg. No. Name of Driller				
County Well Index Online Report		247170		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

247171

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/11/1992
 Update Date 02/13/1992
 Received Date

Well Name NORTHWEST REFINERY 4 Township Range Dir Section Subsections Elevation 728 ft. 27 22 W 2 DADADC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 260 ft.	Depth Completed 260 ft.	Date Well Completed 00/00/1953
Drilling Method --		Drilling Fluid --		
Use Industrial		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter 16 in. to 60 ft. Weight lbs./ft. Hole Diameter 15 in. to 260 ft.		
Open Hole from 60 ft. to 260 ft.		Screen NO Make Type		
Well Address ST PAUL PARK MN		Diameter Slot/Gauze Length Set Between		
Geological Material NO RECORD Color Hardness From 0 To 260		Static Water Level 59 ft. from Land surface Date Measured 1953		
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Information Date 02/13/2004		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499643 Y: 4966583		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Prairie Du Chien Group Aquifer Multiple		Well Contractor Certification Minnesota Department of Health MDH		
Last Strat No Record Depth to Bedrock ft.		License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		247171		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

247172

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
 Update Date 03/14/1994
 Received Date

Well Name NORTHWEST REFINERY 5 Township Range Dir Section Subsections Elevation 732 ft. 27 22 W 1 CBCDCC Elevation Method 7.5 minute topographic map (+/- 5 feet)				Well Depth 269 ft.	Depth Completed 260 ft.	Date Well Completed 00/00/1953		
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Industrial				Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 1 ft.				
Well Address ST PAUL PARK MN				Casing Diameter 16 in. to 60 ft.	Weight lbs./ft.	Hole Diameter 15 in. to 260 ft.		
Geological Material LIMEROCK WITH LARGE CREVICES SHALEY LIMEROCK SANDROCK BLUE SHALE AND SANDROCK				Color HARD	Hardness HARD	From 0 122 174 233	To 122 174 233 269	
Open Hole from 60 ft. to 260 ft.				Screen NO Make Type				
Diameter				Slot/Gauze		Length		
Set Between				Static Water Level 62 ft. from Land surface Date Measured 1953				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS				Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)				Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Unique Number Verification Information from owner Date 02/13/2004				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material				
System UTM - Nad83, Zone15, Meters X: 499797 Y: 4966450				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Prairie Du Chien Group Aquifer Multiple				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Last Strat Jordan-St.Lawrence Depth to Bedrock 0 ft.				Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller				
County Well Index Online Report				247172		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

247173

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/11/1992
 Update Date 01/18/1996
 Received Date

Well Name NORTHWEST REFINERY 6 Township Range Dir Section Subsections Elevation 721 ft. 27 22 W 2 DDADCC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 173 ft.	Depth Completed 173 ft.	Date Well Completed 00/00/1956
Drilling Method --		Drilling Fluid --		
Well Address ST PAUL PARK MN		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material NO RECORD SHAKOPEE JORDAN SANDSTONE		Use Abandoned Status Sealed		
Color NO RECORD SHAKOPEE JORDAN SANDSTONE		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.		
Hardness NO RECORD SHAKOPEE JORDAN SANDSTONE		Casing Diameter 4 in. to 108 ft. Weight lbs./ft. Hole Diameter 4 in. to 173 ft.		
From 0 To 108 108 155 155 173		Open Hole from 108 ft. to 173 ft.		
Method Digitization (Screen) - Map (1:24,000)		Screen NO Make Type		
Date 02/13/2004		Diameter Slot/Gauze Length Set Between		
System UTM - Nad83, Zone15, Meters X: 499584 Y: 4966259		Static Water Level 61 ft. from Land surface Date Measured 1956		
Method Digitization (Screen) - Map (1:24,000)		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Date 02/13/2004		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
System UTM - Nad83, Zone15, Meters X: 499584 Y: 4966259		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Date 02/13/2004		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499584 Y: 4966259		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Method Digitization (Screen) - Map (1:24,000)		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date 02/13/2004		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499584 Y: 4966259		Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller		
Method Digitization (Screen) - Map (1:24,000)		County Well Index Online Report		
Date 02/13/2004		247173		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

247174

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 02/13/1992
 Update Date 03/14/1994
 Received Date

<p>Well Name NORTHWEST REFINERY 7 Township Range Dir Section Subsections Elevation 735 ft. 27 22 W 1 CBBCCB Elevation Method 7.5 minute topographic map (-/5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 236 ft.</td> <td style="width:33%;">Depth Completed 236 ft.</td> <td style="width:33%;">Date Well Completed 00/00/1956</td> </tr> <tr> <td colspan="3">Drilling Method --</td> </tr> </table>	Well Depth 236 ft.	Depth Completed 236 ft.	Date Well Completed 00/00/1956	Drilling Method --																																				
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Drilling Method --																																									
<p>Well Address ST PAUL PARK MN</p> <p>Geological Material NO RECORD</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Color</td> <td style="width:25%;">Hardness</td> <td style="width:25%;">From</td> <td style="width:25%;">To</td> </tr> <tr> <td></td> <td></td> <td>0</td> <td>236</td> </tr> </table>	Color	Hardness	From	To			0	236	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Drilling Fluid --</td> <td style="width:50%;">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="2">Use Industrial</td> </tr> <tr> <td colspan="2">Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Yes <input type="checkbox"/> No Above/Below 0 ft.</td> </tr> <tr> <td style="width:33%;">Casing Diameter 4 in. to 180 ft.</td> <td style="width:33%;">Weight lbs./ft.</td> <td style="width:33%;">Hole Diameter 4 in. to 236 ft.</td> </tr> <tr> <td colspan="3">Open Hole from 180 ft. to 236 ft.</td> </tr> <tr> <td style="width:33%;">Screen NO</td> <td style="width:33%;">Make</td> <td style="width:33%;">Type</td> </tr> <tr> <td style="width:33%;">Diameter</td> <td style="width:33%;">Slot/Gauze</td> <td style="width:33%;">Length</td> </tr> <tr> <td colspan="3">Set Between</td> </tr> <tr> <td colspan="3">Static Water Level 48 ft. from Land surface Date Measured 1956</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> </table>	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	Use Industrial		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/>		Yes <input type="checkbox"/> No Above/Below 0 ft.		Casing Diameter 4 in. to 180 ft.	Weight lbs./ft.	Hole Diameter 4 in. to 236 ft.	Open Hole from 180 ft. to 236 ft.			Screen NO	Make	Type	Diameter	Slot/Gauze	Length	Set Between			Static Water Level 48 ft. from Land surface Date Measured 1956			PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
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<p style="text-align: center;"><i>NO REMARKS</i></p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Date 02/13/2004 Verification Information from owner System UTM - Nad83, Zone15, Meters X: 499689 Y: 4966712</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Nearest Known Source of Contamination _feet _direction _type</td> </tr> <tr> <td>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> </table>	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Nearest Known Source of Contamination _feet _direction _type	Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																				
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<p>First Bedrock Last Strat No Record</p> <p>Aquifer Jordan Depth to Bedrock ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/></td> <td style="width:50%;"></td> </tr> <tr> <td>Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td colspan="2">Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/>		Yes <input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller																																	
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<p>County Well Index Online Report</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">247174</td> <td style="width:50%; text-align: right;">Printed 6/29/2008 HE-01205-07</td> </tr> </table>	247174	Printed 6/29/2008 HE-01205-07																																						
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Minnesota Unique Well No.

247175

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/13/1992
 Update Date 01/18/1996
 Received Date

Well Name NORTHWEST REFINERY 8 Township Range Dir Section Subsections Elevation 27 22 W 2 DADDDD 727 ft. Elevation Method 7.5 minute topographic map (-/+ 5 feet)				Well Depth 257 ft.	Depth Completed 257 ft.	Date Well Completed 00/00/1967		
Drilling Method Cable Tool				Drilling Fluid --			Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
Use Industrial				Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft.				
Casing Diameter 6 in. to 180 ft.				Weight lbs./ft.	Hole Diameter 6 in. to 257 ft.			
Open Hole from 180 ft. to 257 ft.				Screen NO Make Type				
Geological Material LIMEROCK SANDROCK SANDROCK SANDROCK BLUE SHALE ST. LAWRENCE				Color BROWN GRAY BLU/GRY	Hardness	From To 0 183 183 216 216 230 230 248 248 257		
Well Address ST PAUL PARK MN				Static Water Level 72 ft. from Land surface Date Measured 1967				
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.				Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
NO REMARKS				Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from 0 to 180 ft. 0				
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)				Nearest Known Source of Contamination _ft _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Unique Number Verification Information from owner Date 02/13/2004				Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material				
System UTM - Nad83, Zone15, Meters X: 499668 Y: 4966448				Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No				
First Bedrock Prairie Du Chien Group Aquifer Multiple				Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Last Strat Jordan-St.Lawrence Depth to Bedrock 0 ft.				Well Contractor Certification Minnesota Department of Health MDH License Business Name Lie. Or Reg. No. Name of Driller				
County Well Index Online Report				247175		Printed 6/29/2008 HE-01205-07		

Minnesota Unique Well No.

247176

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 02/13/1992
 Update Date 01/18/1996
 Received Date

Well Name NORTHWEST REFINERY 10 Township Range Dir Section Subsections Elevation 731 ft. 27 22 W 1 CBCABB Elevation Method 7.5 minute topographic map (-/ 5 feet)		Well Depth 263 ft. Depth Completed 263 ft. Date Well Completed 00/00/1972
Well Address ST PAUL PARK MN		Drilling Method Cable Tool Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Geological Material SAND AND DIRT DOLOMITE ROCK JORDAN SAND ST. LAWRENCE SAND		Use Industrial Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 0 ft. Casing Diameter 16 in. to 120 ft. Weight lbs./ft. Hole Diameter 15 in. to 263 ft. Open Hole from 120 ft. to 263 ft.
Color SAND AND DIRT DOLOMITE ROCK JORDAN SAND ST. LAWRENCE SAND	Hardness 0 8 176 256	From To 0 8 8 176 176 256 256 263
REMARKS FORMER PA NO. 72-0946. Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 02/13/2004 System UTM - Nud83, Zone15, Meters X: 499783 Y: 4966625		Screen NO Make Type Diameter Slot/Gauze Length Set Between Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
First Bedrock Prairie Du Chien Group Aquifer Multiple Last Strat St.Lawrence Depth to Bedrock 8 ft.		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Nearest Known Source of Contamination _ft _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe __ft. Capacity __g.p.m Type Material
County Well Index Online Report		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Minnesota Department of Health MDH License Business Name Lie. Or Reg. No. Name of Driller
247176		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

433290

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/07/1993
 Update Date 01/18/1996
 Received Date

<p>Well Name ASHLAND PETROLEUM MW-101 Township Range Dir Section Subsections Elevation 745 ft. 27 22 W 1 CCDDAC Elevation Method 7.5 minute topographic map (+/- 5 feet)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Well Depth 53 ft.</td> <td style="width:33%;">Depth Completed 53 ft.</td> <td style="width:33%;">Date Well Completed 04/12/1989</td> </tr> <tr> <td colspan="3">Drilling Method Non-specified Rotary</td> </tr> </table>	Well Depth 53 ft.	Depth Completed 53 ft.	Date Well Completed 04/12/1989	Drilling Method Non-specified Rotary																																																				
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<p>REMARKS M.G.S. NO. 3091.</p> <p>Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)</p> <p>Unique Number Verification Information from owner Date 02/13/2004</p> <p>System UTM - Nad83, Zone15, Meters X: 500039 Y: 4966117</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Grouting Information</td> <td style="width:50%;">Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Grout Material: Neat Cement</td> <td>from 0 to 28 ft. 13 bags</td> </tr> <tr> <td colspan="2">Nearest Known Source of Contamination _feet _direction _type</td> </tr> <tr> <td colspan="2">Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> <tr> <td colspan="2">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> </table>	Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Grout Material: Neat Cement	from 0 to 28 ft. 13 bags	Nearest Known Source of Contamination _feet _direction _type		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller																																									
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<p>Cuttings Yes First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 26 ft.</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">County Well Index Online Report</td> <td style="width:20%; text-align: center;">433290</td> <td style="width:20%; text-align: right;">Printed 6/29/2008 HE-01205-07</td> </tr> </table>	County Well Index Online Report	433290	Printed 6/29/2008 HE-01205-07																																																					
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Minnesota Unique Well No.

433291

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/07/1993
 Update Date 03/06/2002
 Received Date

Well Name ASHLAND PETROLEUM MW-102 Township Range Dir Section Subsections Elevation 725 ft. 27 22 W 2 DDDDC Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 47 ft.	Depth Completed 47 ft.	Date Well Completed 04/26/1989
Drilling Method Non-specified Rotary		Drilling Fluid --		
Well Address ST PAUL PARK MN 55071		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material DRIFT, SAND & CLAY LIMEROCK		Use Monitor well		
Color BLACK Hardness YEL/TAN		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 3 ft.		
From 0 To 6 To 6 47		Casing Diameter 8 in. to 13 ft. Weight lbs./ft. 4 in. to 22 ft. Hole Diameter lbs./ft.		
Static Water Level ft. from Date Measured		Open Hole from 22 ft. to 47 ft.		
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		Screen NO Make Type		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Diameter Slot/Gauze Length Set Between		
REMARKS M.G.S. NO. 2788. 27-22-2 DDDDC ELEV 725+5 103-D		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 22 ft. 8.5 bags		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Information from owner Date 02/13/2004		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499596 Y: 4966070		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Cuttings Yes		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 6 ft.		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
County Well Index Online Report		Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller		
		433291		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

433292

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/07/1993
 Update Date 01/18/1996
 Received Date

Well Name ASHLAND PETROLEUM MW-103 Township Range Dir Section Subsections Elevation 743 ft. 27 22 W 12 BBBADA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 57 ft.	Depth Completed 57 ft.	Date Well Completed 03/27/1989
Well Address ST PAUL PARK MN 55071		Drilling Method Non-specified Rotary		
Geological Material DRIFT, SAND & CLAY LIMEROCK		Color BLACK YEL/TAN	Hardness 0 7	From To 0 7 7 57
Static Water Level ft. from Date Measured		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
REMARKS M.G.S. NO. 2860.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 31 ft. 20 bags		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Information from owner Date 02/13/2004		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499874 Y: 4965974		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
Cuttings Yes		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Last Strat Prairie Du Chien Group Depth to Bedrock 7 ft.		Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		433292		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

433293

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/10/1993
 Update Date 01/18/1996
 Received Date

Well Name ASHLAND PETROLEUM MW-104 Township Range Dir Section Subsections Elevation 733 ft. 27 22 W 12 BBBBAB Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 52 ft.	Depth Completed 52 ft.	Date Well Completed 04/25/1989
		Drilling Method Non-specified Rotary		
		Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Use Domestic		
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 3 ft.		
		Casing Diameter 8 in. to 9 ft.	Weight lbs./ft.	Hole Diameter 4 in. to 27 ft.
		Open Hole from 27 ft. to 52 ft.		
		Screen NO	Make	Type
		Diameter	Slot/Gauze	Length
		Set Between		
Well Address ST PAUL PARK MN 55071				
Geological Material DRIFT, SAND AND CLAY LIMEROCK	Color BLACK YEL/TAN	Hardness	From 0 2	To 2 52
		Static Water Level ft. from Date Measured		
		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.		
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
REMARKS M.G.S. NO. 2784.		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 27 ft. 11.5 bags		
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)		Nearest Known Source of Contamination _feet _direction _type		
Unique Number Verification Information from owner Date 02/13/2004		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 499762 Y: 4966028		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material		
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller		
County Well Index Online Report		433293		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

433294

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/07/1993
 Update Date 01/18/1996
 Received Date

Well Name ASHLAND PETROLEUM MW-105 Township Range Dir Section Subsections Elevation 745 ft. 27 22 W 1 CDCDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 53 ft. Depth Completed 53 ft. Date Well Completed 04/17/1989
Drilling Method Non-specified Rotary		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
Use Monitor well		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 3 ft.
Casing Diameter 8 in. to 30 ft. Weight lbs./ft. Hole Diameter		Open Hole from 30 ft. to 53 ft.
Well Address ST PAUL PARK MN 55071		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Geological Material DRIFT, SAND & CLAY LIMEROCK	Color BLACK YEL/TAN	Hardness 0 1 1 53
Static Water Level ft. from Date Measured		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 28 ft. 14 bags
REMARKS M.G.S. NO. 2953.		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)	Unique Number Verification Information from owner Date 02/13/2004	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
System UTM - Nad83, Zone15, Meters X: 500158 Y: 4966070	Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
Cuttings Yes First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 1 ft.	Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		433294 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

433295

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 06/10/1993
 Update Date 05/06/2005
 Received Date

Well Name ASHLAND PETROLEUM MW-204 Township Range Dir Section Subsections Elevation 729 ft. 27 22 W 12 BBBBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 56 ft. Depth Completed 56 ft. Date Well Completed 05/15/1989 Drilling Method Non-specified Rotary
Well Address ST PAUL PARK MN 55071		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft. Use Abandoned Status Sealed
Geological Material DRIFT, SAND AND CLAY LIMEROCK LIMEROCK WITH SHALE LAYER		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Above/Below 3 ft. Casing Diameter 8 in. to 56 ft. Weight lbs./ft. Hole Diameter Open Hole from 56 ft. to 56 ft. Screen NO Make Type Diameter Slot/Gauze Length Set Between
Color Hardness From To BLACK 0 2 YEL/TAN 2 53 53 56		Static Water Level ft. from Date Measured PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m. Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS M.G.S. NO.3090. WELL SEALED 11-09-2000 BY 62012 ORIGINAL USE DO - DOMESTIC		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from 0 to 56 ft. 35 bags
Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000) Unique Number Verification Information from owner Date 02/13/2004 System UTM - Nad83, Zone15, Meters X: 499729 Y: 4966030		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
Cuttings Yes First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 2 ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report		433295 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

489225

County Washington
 Quad St Paul Park
 Quad ID 102C

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 1031

Entry Date 12/21/1992
 Update Date 04/25/2007
 Received Date

Well Name L-300		Well Depth 50 ft.	Depth Completed 50 ft.	Date Well Completed 04/24/1992
Township Range Dir Section Subsections Elevation 744 ft. 7.5 minute topographic map (+/- 5 feet)		Drilling Method Air Rotary		
27 22 W 12 BBADCD Elevation Method		Drilling Fluid		
		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Use Abandoned Status Sealed		
		Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		No Above/Below 3 ft.		
Casing Diameter		Weight		
12 in. to 4 ft.		lbs./ft.		
6 in. to 25 ft.		lbs./ft.		
Open Hole from 25 ft. to 50 ft.				
Screen NO Make Type		Length Set Between		
Diameter		Slot/Gauge		
Static Water Level		Date Measured 04/24/1992		
31 ft. from Land surface				
PUMPING LEVEL (below land surface)				
40 ft. after 1.25 hrs. pumping 10 g.p.m.				
Well Head Completion		Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
Grouting Information		Grout Material Neat Cement		
Grout Material Neat Cement		from to 25 ft. 13		
Nearest Known Source of Contamination		Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
50 feet W direction Septic tank/drain field_type				
Pump <input type="checkbox"/> Not Installed Date Installed		Manufacturer's name Model number HP Volts		
Length of drop Pipe ft Capacity g.p.m. Type Material				

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Well Contractor Certification</p>	
<p>First Bedrock Prairie Du Chien Group</p>	<p>Aquifer Prairie Du Chien Group</p>
<p>Last Strat Prairie Du Chien Group</p>	<p>Depth to Bedrock 4 ft.</p>
<p>County Well Index Online Report</p>	
<p>Keys Well Co. 62012</p>	<p>SAMPSON, C.</p>
<p>License Business Name</p>	<p>Lic. Or Reg. No. Name of Driller</p>
<p>489225</p>	<p>Printed 6/29/2008 IIE-01205-07</p>

Minnesota Unique Well No.

489226

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/21/1992
 Update Date 04/25/2007
 Received Date

Well Name L-301 Township Range Dir Section Subsections Elevation 751 ft. 27 22 W 12 BABCDA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 50 ft. Depth Completed 50 ft. Date Well Completed 04/24/1992
		Drilling Method Multiple methods used
		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
		Use Abandoned Status Sealed
		Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below 3 ft.
		Casing Diameter 12 in. to 12 ft. Weight lbs./ft. Hole Diameter 6 in. to 25 ft. lbs./ft.
		Open Hole from 25 ft. to 50 ft.
		Screen NO Make Type
		Diameter Slot/Gauze Length Set Between
Geological Material TOP SOIL BROKEN LIMESTONE LIMESTONE	Color BLACK YELLOW TAN	Hardness 0 3 12
		From To 0 3 3 12 12 50
		Static Water Level 30 ft. from Land surface Date Measured 04/24/1992
		PUMPING LEVEL (below land surface) 43 ft. after 1.25 hrs. pumping 10 g.p.m.
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)
REMARKS WELL L-301 WELL SEALED 11-09-2000 BY 62012 ORIGINAL USE MW - MONITOR WELL		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 25 ft. 21 yds.
Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date N/A System UTM - Nad83, Zone15, Meters X: 500179 Y: 4965890		Nearest Known Source of Contamination 50 feet direction Sewer type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
		Well Contractor Certification Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller
First Bedrock Prairie Du Chien Group Aquifer Prairie Du Chien Group Last Strat Prairie Du Chien Group Depth to Bedrock 3 ft.		County Well Index Online Report
		489226 Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

505653

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 12/21/1992
 Update Date 04/25/2007
 Received Date

<p>Well Name WW-11 # 265 Township Range Dir Section Subsections Elevation 748 ft. 27 22 W 1 CDDBBD Elevation Method 7.5 minute topographic map (+/- 5 feet)</p> <p>Well Address 400 5TH AV MN</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROKEN LIMEROCK</td> <td>YELLOW</td> <td></td> <td>0</td> <td>12</td> </tr> <tr> <td>HARD LIMEROCK</td> <td>YELLOW</td> <td></td> <td>12</td> <td>173</td> </tr> <tr> <td>SANDSTONE</td> <td>YELLOW</td> <td></td> <td>173</td> <td>202</td> </tr> <tr> <td>SANDSTONE</td> <td>YELLOW</td> <td></td> <td>202</td> <td>220</td> </tr> <tr> <td>SANDSTONE</td> <td>GRAY</td> <td></td> <td>220</td> <td>226</td> </tr> </tbody> </table>	Geological Material	Color	Hardness	From	To	BROKEN LIMEROCK	YELLOW		0	12	HARD LIMEROCK	YELLOW		12	173	SANDSTONE	YELLOW		173	202	SANDSTONE	YELLOW		202	220	SANDSTONE	GRAY		220	226	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth 226 ft.</td> <td>Depth Completed 226 ft.</td> <td>Date Well Completed 12/28/1989</td> </tr> <tr> <td colspan="3">Drilling Method Cable Tool</td> </tr> <tr> <td>Drilling Fluid Water</td> <td colspan="2">Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.</td> </tr> <tr> <td colspan="3">Use Abandoned Status Sealed</td> </tr> <tr> <td colspan="3">Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.</td> </tr> <tr> <td>Casing Diameter 12 in. to 45 ft. 6 in. to 201.8 ft.</td> <td>Weight 49.56 lbs./ft. 18.97 lbs./ft.</td> <td>Hole Diameter</td> </tr> <tr> <td colspan="3">Open Hole from 201 ft. to 226 ft.</td> </tr> <tr> <td>Screen NO</td> <td>Make</td> <td>Type</td> </tr> <tr> <td>Diameter</td> <td>Slot/Gauze</td> <td>Length</td> </tr> <tr> <td></td> <td></td> <td>Set Between</td> </tr> <tr> <td colspan="3">Static Water Level 50.6 ft. from Land surface Date Measured 12/28/1989</td> </tr> <tr> <td colspan="3">PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.</td> </tr> <tr> <td colspan="3">Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 45 ft. 4.75 bags Grout Material: Neat Cement from to 201 ft. 7.25 bags</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material</td> </tr> <tr> <td colspan="3">Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Well Contractor Certification <u>Renner F.H. Well</u> <u>71015</u> <u>LEDBETER.</u> <u>B.</u> License Business Name Lic. Or Reg. No. Name of Driller</td> </tr> <tr> <td colspan="3">County Well Index Online Report</td> </tr> </table>	Well Depth 226 ft.	Depth Completed 226 ft.	Date Well Completed 12/28/1989	Drilling Method Cable Tool			Drilling Fluid Water	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		Use Abandoned Status Sealed			Casing Type Steel (black or low carbon) Joint Welded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 2 ft.			Casing Diameter 12 in. to 45 ft. 6 in. to 201.8 ft.	Weight 49.56 lbs./ft. 18.97 lbs./ft.	Hole Diameter	Open Hole from 201 ft. to 226 ft.			Screen NO	Make	Type	Diameter	Slot/Gauze	Length			Set Between	Static Water Level 50.6 ft. from Land surface Date Measured 12/28/1989			PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 45 ft. 4.75 bags Grout Material: Neat Cement from to 201 ft. 7.25 bags			Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material			Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Well Contractor Certification <u>Renner F.H. Well</u> <u>71015</u> <u>LEDBETER.</u> <u>B.</u> License Business Name Lic. Or Reg. No. Name of Driller			County Well Index Online Report		
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Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																											
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																											
Well Contractor Certification <u>Renner F.H. Well</u> <u>71015</u> <u>LEDBETER.</u> <u>B.</u> License Business Name Lic. Or Reg. No. Name of Driller																																																																																											
County Well Index Online Report																																																																																											

Printed 6/29/2008
 HE-01205-07

Minnesota Unique Well No.

666472

County Washington
 Quad St Paul Park
 Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/02/2006
 Update Date 11/08/2004
 Received Date

Well Name CITY OF ST. PAUL PARK Township Range Dir Section Subsections Elevation 757 ft. 27 22 W 1 CAACAD Elevation Method (USGS 7.5 min or equiv.)		Well Depth 30 ft. Depth Completed 30 ft. Date Well Completed 10/27/2004 Drilling Method Non-specified Rotary
Well Address HASTINGS AV ST PAUL PARK MN		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From Ft. to Ft.
Geological Material SILTY CLAY LIMESTONE		Use Monitor well Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.
Color DK. BRN Hardness TAN	From 0 To 7	Casing Diameter 4 in. to 9.5 ft. Weight lbs./ft. Hole Diameter 12 in. to 5 ft. 8 in. to 9.5 ft.
Open Hole from 9.5 ft. to 30 ft.		Screen NO Make Type Diameter Slot/Gauze Length Set Between
Static Water Level 10.6 ft. from No Information Date Measured 10/27/2004		PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.
Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input checked="" type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Neat Cement from to 9.5 ft. 6 bags
Located Minnesota Department of Health Method GPS SA Off (averaged) Unique Number Verification N/A Date 11/04/2004 System UTM - Nad83, Zone15, Meters X: 500368 Y: 4966699		Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
First Bedrock Last Strat		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP_ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
Aquifer Depth to Bedrock ft.		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
County Well Index Online Report		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Well Contractor Certification Stevens Well Co. 86654 JOHNSON, R. License Business Name Lic. Or Reg. No. Name of Driller		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

752321

County Washington
 Quad Inver Grove Heights
 Quad ID 103D

**MINNESOTA DEPARTMENT OF HEALTH
 WELL AND BORING RECORD**
 Minnesota Statutes Chapter 103I

Entry Date 01/25/2008
 Update Date 02/28/2008
 Received Date

Well Name MW-700A Township Range Dir Section Subsections Elevation 732 ft. 27 22 W 1 BCCAAA Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 60 ft. Depth Completed 60 ft. Date Well Completed 11/08/2007	
Drilling Method Non-specified Rotary			
Drilling Fluid --		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No from Ft. to Ft.	
Use Monitor well			
Casing Type Steel (black or low carbon) Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No No Above/Below ft.			
Casing Diameter 6 in. to 25.5 ft. Weight lbs./ft. Hole Diameter 10 in. to 60 ft.			
Open Hole from 25.5 ft. to 60 ft.			
Screen NO Make Type			
Diameter		Slot/Gauge Length Set Between	
Static Water Level 47 ft. from L and surface Date Measured 11/08/2007			
PUMPING LEVEL (below land surface) ft. after hrs. pumping g.p.m.			
Well Head Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection Y <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material Neat Cement from to 24 ft. 6 bags			
Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP __ Volts Length of drop Pipe _ft. Capacity _g.p.m. Type Material			
Well Address 2ND ST ST PAUL PARK MN 55071		Color BLK/BRN From 0 To 9 YELLOW HARD 9 60 Hardness MEDIUM HARD	
Geological Material FILL DEBRIS LIMESTONE			
NO REMARKS			
Located Minnesota Geological Survey Unique Number Verification Info/GPS from data source System UTM - Nad83, Zone 15, Meters X: 499873 Y: 4967016		Method Digitization (Screen) - Map (1:24,000) Date 02/28/2008	

<p>Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Well Contractor Certification</p> <p><u>Thein Well Co., Inc.</u> <u>1337</u> <u>WINTHER,</u> <u>M.</u> License Business Name Lic. Or Reg. No. Name of Driller</p>	
<p>First Bedrock Prairie Du Chien Group Last Strat Prairie Du Chien Group</p>	<p>Aquifer Prairie Du Chien Group Depth to Bedrock 9 ft.</p>
<p>County Well Index Online Report</p>	
<p>752321</p>	<p>Printed 6/29/2008 HE-01205-07</p>

SITE SUMMARY

Site Name: Former Wrenshall Refinery

Fire Department: Former Wrenshall Refinery
Highway 1
Wrenshall, MN

Site Contact: Information provided by Wrenshall Fire Chief Nick Shande
218-384-4670
wrenshallfire@aol.com

Training Location: On-site training with foam. Per Mr. Shande, refinery had foam and firefighting equipment, and the Wrenshall Fire Department responded to fires. Refinery apparently had some trained firefighters, but also utilized city fire department.

Type of foam used in training: Unknown, 3M foam use assumed

Foam training frequency: Unknown

Foam use per training event: Unknown

Spent foam destination: Unknown

Annual foam use: Unknown

Nearest surface water: Unnamed pond on site; unnamed streams approximately 1/4 mile to the east

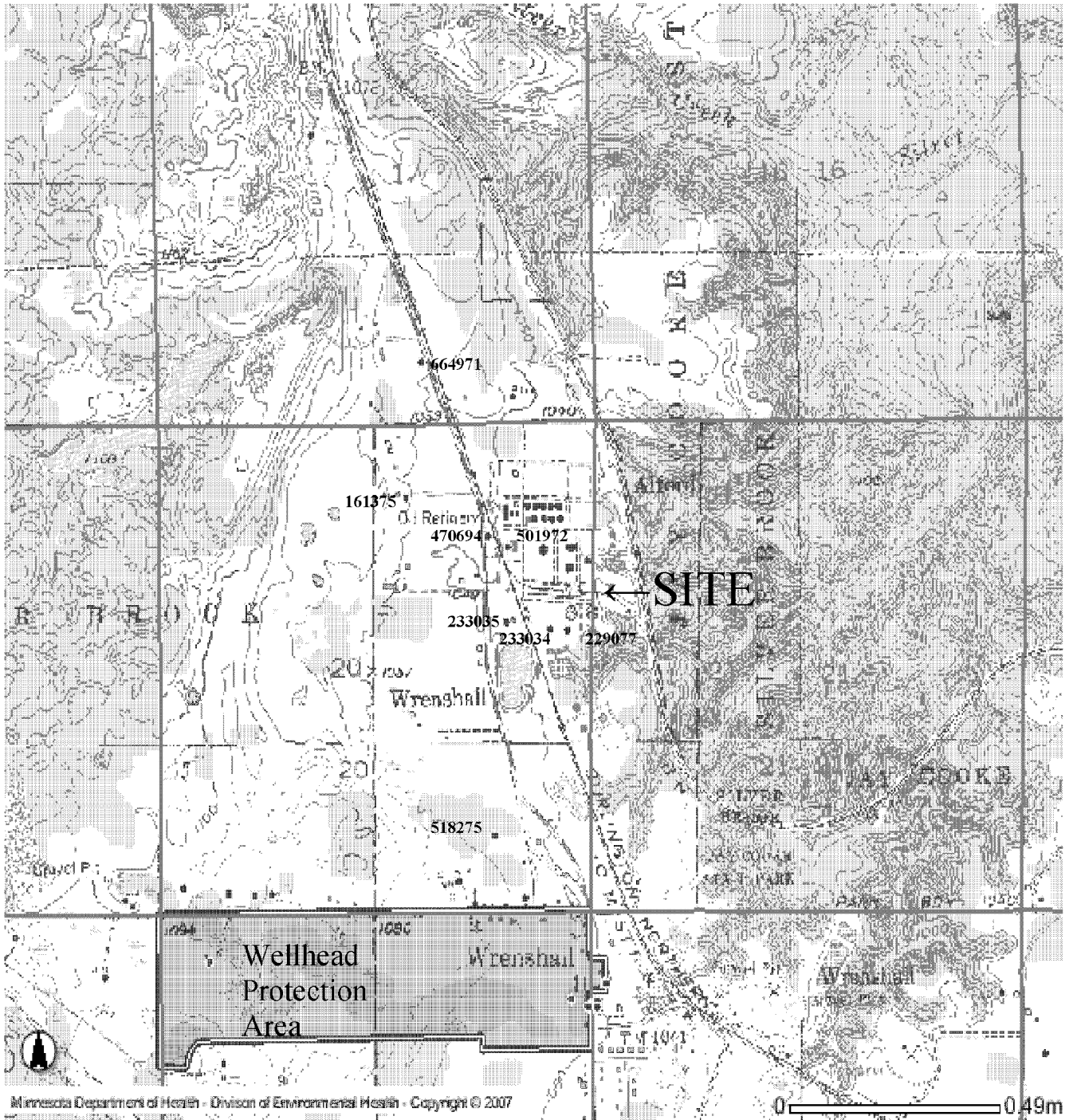
Nearest wetland: On site

Nearest water well: On site

Nearest Wellhead Protection Area: 1/4 to 1/2 mile south

SITE RANKING: **25**
(ranking assumes historic maximal use of 3M foam in training)

WRENSHALL FORMER REFINERY CWI Well Map



Former Wrenshall Refinery *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

 **Minnesota Pollution Control Agency**

- Sites**
- Deleted State Superfund
 - Permitted Solid Waste
 - Unpermitted Dumps
 - NFRAP
 - State Superfund
 - CERCLA
 - Federal Superfund
 - State Closed Landfills
 - Voluntary Investigation & Cleanup
 - ▲ RCRA TSD Facilities
 - ▲ RCRA Investigation & Cleanup
 - ▲ State Assessment

Minnesota Unique Well No.

161375

County Carlton
 Quad Cloquet
 Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
 Update Date 06/05/2006
 Received Date

Well Name ZIEBARTH, DUANE Township Range Dir Section Subsections Elevation 48 16 W 20 ABCABC Elevation Method 1062 ft. 7.5 minute topographic map (+/- 5 feet)		Well Depth 119 ft.	Depth Completed 119 ft.	Date Well Completed 07/00/1981
Drilling Method Cable Tool		Drilling Fluid --		
Well Address WRENSHALL MN 55797		Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Geological Material GRAVEL CLAY SAND STREAKS OF CLAY & SAND CLAY SAND		Use Domestic		
Color BROWN BROWN BROWN BROWN BROWN BROWN		Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below 1 ft.		
Hardness SOFT SOFT SOFT SOFT SOFT SOFT		Casing Type Steel (black or low carbon) Weight 11 lbs./ft. Hole Diameter		
From 0 18 37 77 82 113		Casing Diameter 4 in. to 115 ft.		
To 18 37 77 82 113 119		Open Hole from ft. to ft.		
Geological Material		Screen YES Make JOINSON Type stainless steel		
Color		Diameter 4 Slot/Gauze 12 Length 4 Set Between 115 ft. and 119 ft.		
Hardness		Static Water Level 85 ft. from Land surface Date Measured 07/26/1981		
From		PUMPING LEVEL (below land surface) 85 ft. after 1 hrs. pumping 6 g.p.m.		
To		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
NO REMARKS		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Carlton Cty. Soil & Water Cons. Dist.		Nearest Known Source of Contamination 100 feet S direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Method Digitization (Screen) - Map (1:24,000)		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number HP Volts Length of drop Pipe ft. Capacity g.p.m. Type Material		
Unique Number Verification N/A Date 04/26/2005		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
System UTM - Nad83, Zone15, Meters X: 546366 Y: 5164461		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
First Bedrock		Well Contractor Certification Schwoek Well Co. 09116 NEGAARD, D. License Business Name Lic. Or Reg. No. Name of Driller		
Last Strat Sand-brown Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		County Well Index Online Report		
County Well Index Online Report		161375		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

229077

County Carlton
 Quad Cloquet
 Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Entry Date 08/14/1991
 Update Date 02/13/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name CONOCO REFINERY NO.1		Well Depth 151 ft.	Depth Completed 151 ft.	Date Well Completed 10/15/1952																																													
Township Range Dir Section Subsections Elevation 48 16 W 20 ADDBDD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Drilling Method --																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Geological Material</th> <th>Color</th> <th>Hardness</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>FILL</td> <td></td> <td></td> <td>0</td> <td>3</td> </tr> <tr> <td>CLAY</td> <td></td> <td></td> <td>3</td> <td>28</td> </tr> <tr> <td>CLAY, GRAVEL & BOULDERS</td> <td></td> <td></td> <td>28</td> <td>40</td> </tr> <tr> <td>DRY SAND & GRAVEL</td> <td></td> <td></td> <td>40</td> <td>57</td> </tr> <tr> <td>DRY MED TO FINE SAND</td> <td></td> <td></td> <td>57</td> <td>81</td> </tr> <tr> <td>SANDY CLAY</td> <td>RED</td> <td></td> <td>81</td> <td>111</td> </tr> <tr> <td>CLEAN SAND & GRAVEL</td> <td></td> <td></td> <td>111</td> <td>130</td> </tr> <tr> <td>RED CLAY & GRAVEL</td> <td></td> <td></td> <td>130</td> <td>151</td> </tr> </tbody> </table>		Geological Material	Color	Hardness	From	To	FILL			0	3	CLAY			3	28	CLAY, GRAVEL & BOULDERS			28	40	DRY SAND & GRAVEL			40	57	DRY MED TO FINE SAND			57	81	SANDY CLAY	RED		81	111	CLEAN SAND & GRAVEL			111	130	RED CLAY & GRAVEL			130	151	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.	
		Geological Material	Color	Hardness	From	To																																											
		FILL			0	3																																											
		CLAY			3	28																																											
		CLAY, GRAVEL & BOULDERS			28	40																																											
		DRY SAND & GRAVEL			40	57																																											
		DRY MED TO FINE SAND			57	81																																											
		SANDY CLAY	RED		81	111																																											
		CLEAN SAND & GRAVEL			111	130																																											
		RED CLAY & GRAVEL			130	151																																											
Use Industrial		Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.																																															
		Casing Diameter	Weight	Hole Diameter																																													
		Open Hole from ft. to ft.																																															
		Screen	Make	Type																																													
		Diameter	Slot/Gauze	Length Set Between																																													
		Static Water Level 96 ft. from Land surface Date Measured 10/00/1952																																															
		PUMPING LEVEL (below land surface) 124 ft. after 24 hrs. pumping 600 g.p.m.																																															
		Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																															
NO REMARKS		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
Located Minnesota Geological Survey		Method Digitization (Screen) - Map (1:24,000)																																															
Unique Number		Nearest Known Source of Contamination _feet _direction _type																																															
Verification Other, note in remarks		Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
System UTM - Nad83, Zone15, Meters		Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material																																															
		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
		Well Contractor Certification <u>Bergerson-Caswell</u> 27058 License Business Name Lic. Or Reg. No. Name of Driller																																															
First Bedrock		Aquifer																																															
Last Strat Pebbly sand/silt/clay-red		Depth to Bedrock ft.																																															
County Well Index Online Report		229077		Printed 6/29/2008 HF-01205-07																																													

Minnesota Unique Well No.

233034

County Carlton
 Quad Cloquet
 Quad ID 224B

**MINNESOTA DEPARTMENT
 OF HEALTH
 WELL AND BORING
 RECORD**

Entry Date 08/14/1991
 Update Date 02/13/2008
 Received Date

Minnesota Statutes Chapter 1031

Well Name CONOCO REFINERY NO.2	Well Depth 150 ft.	Depth Completed 150 ft.	Date Well Completed 10/00/1952
Township Range Dir Section Subsections Elevation 48 16 W 20 ADDBCD	Elevation 1046 ft. 7.5 minute topographic map (+/- 5 feet)	Elevation Method	
Drilling Method --			

Geological Material CLAY CLAY & GRAVEL SAND, GRAVEL & BOULDERS DRY MED TO FINE SAND COARSE SAND COARSE SAND & GRAVEL SAND, GRAVEL & STONE	Color RED	Hardness	From 0	To 12	Drilling Fluid --	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.
				12	25	Use Industrial
				25	67	Casing Type Joint No Information Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No No Above/Below ft.
				67	88	Casing Diameter Weight Hole Diameter
				88	130	Open Hole from ft. to ft.
				130	143	Screen Make Type
				143	150	Diameter Slot/Gauze Length Set Between
						Static Water Level 98 ft. from Land surface Date Measured 10/00/1952
						PUMPING LEVEL (below land surface) 123 ft. after 24 hrs. pumping 600 g.p.m.
						Well Head Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)

<i>NO REMARKS</i>	Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Located Minnesota Geological Survey	Method Digitization (Screen) - Map (1:24,000)
Unique Number	Date 08/01/2007
Verification Other, note in remarks	
System UTM - Nad83, Zone15, Meters	X: 546902 Y: 5164033
	Nearest Known Source of Contamination _feet _direction _type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model number __ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material

	Abandoned Wells Does property have any not in use and not sealed well (s)? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No
First Bedrock	Aquifer
Last Strat Sand & larger	Depth to Bedrock ft.
	Well Contractor Certification <u>Bergerson-Caswell</u> <u>27058</u> License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	233034	Printed 6/29/2008 HE-01205-07
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Minnesota Unique Well No.

233035

County Carlton
 Quad Cloquet
 Quad ID 224B

MINNESOTA DEPARTMENT
 OF HEALTH
**WELL AND BORING
 RECORD**

Entry Date 08/14/1991
 Update Date 02/13/2008
 Received Date

Minnesota Statutes Chapter 103I

Well Name CONOC REFINERY NO.3		Well Depth	Depth Completed	Date Well Completed
Township Range Dir Section Subsections Elevation		150 ft.	150 ft.	10/00/1952
48	16 W 20 ADCBDB	Elevation Method 7.5 minute topographic map (+/- 5 feet)		
		Drilling Method Cable Tool		
		Drilling Fluid	Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		--	From Ft. to Ft.	
Use Industrial				
		Casing Type	Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Joint	No Information	
		No Above/Below ft.		
		Casing Diameter	Weight	Hole Diameter
Open Hole from ft. to ft.				
		Screen	Make	Type
Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	8
CLAY	BLUE		8	45
SANDY CLAY	BROWN		45	75
DIRTY SAND & GRAVEL			75	85
SAND & GRAVEL			85	138
SAND & GRAVEL, CLAY			138	150
		Static Water Level	91 ft. from Land surface Date Measured 10/00/1952	
PUMPING LEVEL (below land surface)				
114 ft. after 24 hrs. pumping 600 g.p.m.				
Well Head Completion				
Pitless adapter manufacturer Model				
<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade				
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)				
<i>NO REMARKS</i>				
Located Minnesota Geological Survey		Method Digitization (Screen) - Map (1:24,000)		
Unique Number		Date 08/01/2007		
Verification Other, note in remarks		X: 546739 Y: 5164055		
System UTM - Nad83, Zone15, Meters				
		Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Nearest Known Source of Contamination				
_feet _direction _type				
Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Pump <input type="checkbox"/> Not Installed Date Installed				
Manufacturer's name Model number __ HP _ Volts				
Length of drop Pipe _ft. Capacity _g.p.m Type Material				
Abandoned Wells Does property have any not in use and not sealed well(s)?				
<input type="checkbox"/> Yes <input type="checkbox"/> No				
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Well Contractor Certification				
Bergerson-Caswell 27058				
License Business Name Lic. Or Reg. No. Name of Driller				
First Bedrock		Aquifer		
Last Strat Pebbly sand/silt/clay		Depth to Bedrock ft.		
County Well Index Online Report		233035		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

518275

County Carlton
 Quad Wrenshall
 Quad ID 224C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes Chapter 1031

Entry Date 03/12/1993
 Update Date 06/05/2006
 Received Date

Well Name GROVER, BRUCE D. Township Range Dir Section Subsections Elevation 1058 ft. 48 16 W 20 DDBCBD Elevation Method 7.5 minute topographic map (+/- 5 feet)		Well Depth 90 ft.	Depth Completed 90 ft.	Date Well Completed 01/20/1993
Well Address 599 ALLEN DR WRENSHILL MN 55797		Drilling Method Cable Tool		
Geological Material SANDY CLAY CLAY SAND CLAY SAND FINE		Drilling Fluid -- Well Hydrofractured? <input type="checkbox"/> Yes <input type="checkbox"/> No From Ft. to Ft.		
Color BROWN BROWN BROWN GRAY BROWN		Use Domestic Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Above/Below ft.		
Hardness SOFT SOFT SOFT SOFT SOFT		Casing Diameter 5 in. to 86 ft. Weight 15 lbs./ft. Hole Diameter		
From 0 8 24 38 80		Open Hole from ft. to ft. Screen YES Make COOK Type stainless steel		
To 8 24 38 80 90		Diameter 3 Slot/Gauze 10 Length 4 Set Between 86 ft. and 90 ft.		
Static Water Level 64 ft. from Land surface Date Measured 12/04/1992		PUMPING LEVEL (below land surface) 75 ft. after 2 hrs. pumping 10 g.p.m.		
Well Head Completion Pitless adapter manufacturer MONITOR Model 8PL5V <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Grout Material: Bentonite from to ft. 3 bags		
REMARKS 3 BAGS BENTONITE AROUND CASING WHILE DRILLING.		Nearest Known Source of Contamination 90 feet N direction Septic tank/drain field type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Located Carlton Cty. Soil & Water Cons. Dist. Method Digitization (Screen) - Map (1:24,000)		Pump <input type="checkbox"/> Not Installed Date Installed 01/05/1993 Manufacturer's name AERMOTOR Model number SD12-50 HP 0.5 Volts 230 Length of drop Pipe 75 ft. Capacity 10 g.p.m. Type Submersible Material		
Unique Number Verification N/A Date 04/26/2005 System UTM - Nad83, Zone15, Meters X: 546696 Y: 5163358		Abandoned Wells Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
First Bedrock Last Strat Sand-brown		Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No Well Contractor Certification Klavu Well Drilling 09650 KLAVU, E. License Business Name Lic. Or Reg. No. Name of Driller		
Aquifer Quat. Buried Artes. Aquifer Depth to Bedrock ft.		County Well Index Online Report		
		518275		Printed 6/29/2008 HE-01205-07