

State Disposal System

MN0067954

Permittee: Farms of Lake Elmo Association
Facility name: Farms of Lake Elmo Wastewater Treatment Facility
City: Lake Elmo **County:** Washington
Issuance date: TBD
Expiration date: TBD

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to operate a disposal system at the facility named above in accordance with the requirements of this permit.

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

Although this permit is effective on the issuance date identified above, the limits and monitoring requirements are not effective until XX/01/XXXX. This permit is effective on the issuance date identified above. This permit expires at midnight on the expiration date identified above.

Signature: [Type e-Signature]

This document has been electronically signed.

for the Minnesota Pollution Control Agency

Benjamin Carlson-Stehlin, P.E.
Supervisor
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Municipal Division

Resources

Submit electronic Discharge Monitoring Reports (eDMR) via the MPCA e-Services at: https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true

Submit documents electronically to wq.submittals.mpca@state.mn.us. **Note:** The Water quality submittals form located at <https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx> must be attached.

For eDMR and other permit reporting issues, use the directory listed at the bottom of the Discharge Monitoring Report page: <https://www.pca.state.mn.us/water/discharge-monitoring-reports>

For specific permit requirements, contact your compliance staff: <https://www.pca.state.mn.us/water/wastewater-compliance-and-enforcement-staff-contacts>

For wastewater permit program general questions, contact the MPCA at 651-282-6143 or 800-657-3938, or reference the permit user's manual at <https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-09.pdf>.

Additional guidance and resources are located at: <https://www.pca.state.mn.us/water/wastewater>.

A printable summary of sampling requirements can be found at: <https://www.pca.state.mn.us/water/wastewater-permit-submittal-checklists>.

A printable checklist of submittals can be found at: <https://www.pca.state.mn.us/water/wastewater-permit-submittal-checklists>

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1. Permitted facility description

The Farms of Lake Elmo Wastewater Treatment Facility (facility) is located at 3045 Janero Avenue North, Lake Elmo, Minnesota 55042, Washington County.

The facility discharges from WS 004 to land via drainfield. This is a Class C facility.

The facility is designed to treat:

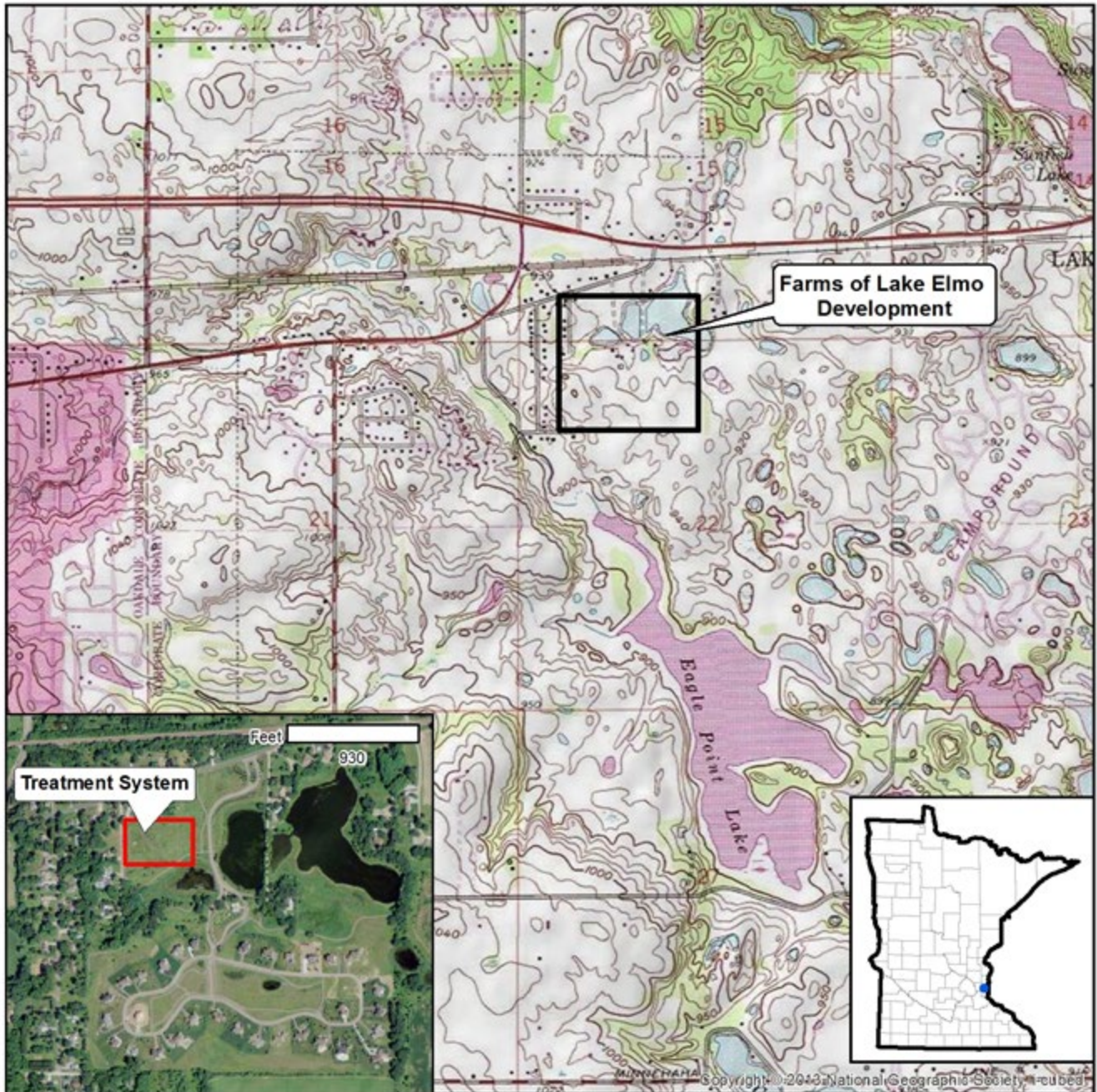
- an average wet weather (AWW) flow of 0.010 million gallons per day (mgd)
- five-day biochemical oxygen demand (BOD₅) of 18 pounds per day (lbs/day)
- total suspended solids (TSS) of 17 lbs/day
- total nitrogen (TN) of 6.3 lbs/day

The facility is a septic system designed to treat 38 single family homes with 33 homes connected. The facility consists of individual grinder pumps at each home, a two compartment 12,000-gallon septic tank, a four-tank aerated fixed-film septic process, a 5,000-gallon dosing tank, effluent screen, effluent flow meter, and flows by gravity to a six zoned drainfield. The aerated fixed-film septic process consists of the following: BioMicrobics units in series: a 9,000-gallon MicroFAST 9.0 secondary biological treatment unit, a 9,000-gallon NitrifAST 9.0 nitrification unit, a 3,000-gallon ABC-N 3.0 denitrification unit with carbon source addition, and a 1,500-gallon MicroFAST 1.5 polishing unit. Each drainfield zone is 2,520 square feet for a total treatment area of 15,120 square feet and a reserve area with an additional 5,025 square feet. There is a groundwater monitoring network comprised of three wells.

2. Location map of permitted facility

Topographic Map of Permitted Facility

MN0067954: Farms of Lake Elmo Wastewater Treatment Facility
T29N, R21W, Section 15
Lake Elmo, Washington County, Minnesota



Map produced by: MPCA Staff, 8/27/2015
Main Map Scale: 1:12,000

Aerial of permitted facility



4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
GW 001	Well, Other	Groundwater Well #1 - Northwest corner	T29N, R21W, S15, SW Quarter of the SW Quarter
GW 002	Well, Other	Groundwater Well #2 - South side	T29N, R21W, S15, SW Quarter of the SW Quarter
GW 003	Well, Other	Groundwater Well #3 - Southeast corner	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 001	Influent Waste	Influent Waste Stream	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 004	Intermediate: WW to Land	Effluent to Drainfield	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 005	Internal Waste Stream	Tank Monitoring - 12,000 gallon septic tank -1st compartment	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 006	Internal Waste Stream	Tank Monitoring - 12,000 gallon septic tank - 2nd compartment	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 007	Internal Waste Stream	Tank Monitoring - 9,000 gallon MICROFAST	T29N, R21W, S15, SW Quarter of the SW Quarter
WS 008	Internal Waste Stream	Tank Monitoring - 9,000 gallon NITRIFAST	T29N, R21W, S15, SW Quarter of the SW Quarter

5. Permit requirements

GW 001	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	5.1.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.1.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.1.3	Samples for Station GW 001 shall be taken at the groundwater well located in the northwest corner. [Minn. R. 7001.0150, subp. 2(B)]
GW 002	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	5.2.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.2.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.2.3	Samples for Station GW 002 shall be taken at the south side groundwater well. [Minn. R. 7001.0150, subp. 2(B)]
GW 003	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	5.3.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.3.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.3.3	Samples for Station GW 003 shall be taken at the groundwater well located in the southeast corner. [Minn. R. 7001.0150, subp. 2(B)]
WS 001	Influent Waste	
		Waste Stream: Large Subsurface Sewage Treatment System Influent Monitoring Requirements
	5.4.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.4.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.4.3	Samples for Station WS 001 shall be taken at a point representative of total influent flow to the system. [Minn. R. 7001.0150, subp. 2(B)]
WS 004	Intermediate: WW to Land	
		Waste Stream: Large Subsurface Sewage Treatment System Groundwater Well Compliance Point Requirements
	5.5.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.5.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.5.3	Samples for Station WS 004 shall be taken at the dosing tank prior to dispersal to the irrigation zones. [Minn. R. 7001.0150, subp. 2(B)]
WS 005	Internal Waste Stream	
		Waste Stream: Drainfield Septic Tank Requirements

	5.6.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.6.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.6.3	Samples for Station WS 005 shall be taken in the first septic tank (12,000 gallon tank) in the first compartment. [Minn. R. 7001.0150, subp. 2(B)]
WS 006	Internal Waste Stream	
		Waste Stream: Drainfield Septic Tank Requirements
	5.7.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.7.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.7.3	Samples for Station WS 006 shall be taken at the first septic tank (12,000 gallon tank) in the second compartment. [Minn. R. 7001.0150, subp. 2(B)]
WS 007	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.8.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.8.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.8.3	Samples for Station WS 007 shall be taken in the 9,000 gallon MICROFAST tank. [Minn. R. 7001.0150, subp. 2(B)]
WS 008	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.9.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.9.2	Sampling Location. [Minn. R. 7001.0150, subp. 2(B)]
	5.9.3	Samples for Station WS 008 shall be taken in the 9,000 gallon NITRIFAST tank. [Minn. R. 7001.0150, subp. 2(B)]
MN0067954	Farms of Lake Elmo WWTP	
		Groundwater Station General Requirements
	5.10.1	Sampling Collection and Reporting. [Minn. R. 7001]
	5.10.2	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp 2(B)]
	5.10.3	Monitoring Wells. [Minn. R. 7001]
	5.10.4	The Permittee shall install, maintain, and abandon the groundwater monitoring wells according to the Minnesota Water Well Construction Code, Minn. R. 4725. For example, wells must have a watertight, locked cap or a wrench-tightened, threaded metal cap. Damaged or improperly constructed monitoring wells shall be repaired or properly abandoned and replaced. Information on licensed water well contractors is available from the Minnesota Department of Health. [Minn. R. 4725]

5.10.5	Each monitoring well shall be clearly numbered on the outside of the well with either indelible paint or an inscribed number. [Minn. R. 7001]
5.10.6	The monitoring wells shall be sampled in accordance with Minnesota Pollution Control Agency, Water Quality Division: Sampling Procedures for Ground Water Monitoring Wells, July 1997, Reviewed and re-approved September 2006 or any updates to this document. A copy of this publication is available on the MPCA's website at https://www.pca.state.mn.us/business-with-us/engineering-and-technical-information-for-construction-or-expansion . [Minn. R. 7001]
5.10.7	Grab samples shall be collected at all groundwater monitoring points after stabilization tests are conducted. [Minn. R. 7001]
5.10.8	Prior to well purging and sampling, depths to groundwater shall be measured to the nearest 0.01 foot below the top of the well casing, and groundwater elevations shall be reported to the nearest 0.01 foot above mean sea level. [Minn. R. 7001]
5.10.9	Temperature, specific conductance, and pH shall be reported as the final field measurements from well stabilization. [Minn. R. 7001]
	Waste Stream Station General Requirements
5.11.13	Sampling Collection and Reporting. [Minn. R. 7001]
5.11.14	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp 2(B)]
5.11.15	Monitoring for parameters with a frequency of once per quarter and an effective period of Mar, Jun, Sep, Dec can be sampled any time during that calendar quarter. The Permittee must report the monitoring results on the Sample Values in the month they conducted the monitoring and on the eDMR at the end of the quarter. (e.g. The Permittee shall report the sample for the first calendar quarter of Jan-Mar on the Sample Values in the month the sample is collected and on the March eDMR). [Minn. R. 7001]
5.11.16	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
5.11.17	"Total Nitrogen" with a sample type of "Calculation" is to be reported as the summation of the total Kjeldahl nitrogen and total nitrite plus nitrate nitrogen values. [Minn. R. 7001]
	Compliance Schedule Requirements
5.12.21	Nitrogen Compliance Schedule. [Minn. R. 7001]
5.12.22	The Permittee is required to attain compliance with MPCA's Groundwater Nitrogen Policy through one of two options. Explanation of these compliance options is available on the MPCA website: https://www.pca.state.mn.us/sites/default/files/wq-wwprm1-10.pdf . In order to work towards compliance with the MPCA's Groundwater Nitrogen Policy, a Nitrogen Compliance Schedule is included in this permit. [Minn. R. 7001]
5.12.23	Nitrogen Mitigation and Analysis Plan. [Minn. R. 7001]
5.12.24	Within 365 days of permit issuance, the Permittee shall complete and submit for MPCA review and approval a Nitrogen Mitigation and Analysis Plan. The Permittee shall submit a Nitrogen Mitigation and Analysis Plan: Due by one year after permit issuance The Permittee shall begin implementing the Plan immediately after MPCA approval. [Minn. R. 7001]

5.12.25	<p>The Nitrogen Mitigation and Analysis Plan shall analyze potential causes for elevated nitrogen levels in the groundwater wells. At a minimum, the Plan shall include:</p> <ul style="list-style-type: none"> a. A description of potential sources of nitrogen b. An evaluation of current facility operation and maintenance c. A completed groundwater flow direction study/evaluation completed by a licensed Professional Geologist d. Flow data indicating total gallons per day of effluent applied to each dispersal zone e. Testing results from process control samples taken before and after treatment f. Exploration of options for corrective actions that would result in lower nitrogen levels g. A timeline for implementation of the chosen corrective actions. [Minn. R. 7001]
5.12.26	<p>Within three years after permit issuance, the Permittee shall prepare and submit for MPCA review and approval a Nitrogen Evaluation and Compliance Plan. The Permittee shall submit a plan: Due by three years after permit issuance. [Minn. R. 7001]</p>
5.12.27	<p>The Nitrogen Evaluation and Compliance Plan shall evaluate the facility's ability to comply with a 10 mg/L nitrite plus nitrate nitrogen limit and outline a path forward. At minimum, the Plan shall include:</p> <ul style="list-style-type: none"> a. A summary and evaluation of the effect of corrective actions, operational changes, and nitrogen mitigation efforts on nitrogen levels b. An assessment of the facility's ability to comply with a 10 mg/L nitrite plus nitrate limit in all groundwater monitoring wells c. Anticipated changes to flow volume or waste type in the next 10 years and an assessment of whether anticipated changes would affect the ability of the facility to comply with a 10 mg/L nitrite plus nitrate limit d. An evaluation of options for compliance with the MPCA Nitrogen Policy e. Selection of either Option 1 or Option 2 of the MPCA Nitrogen Policy f. A description of any necessary upgrades required to comply with the chosen option g. An anticipated timeline for attaining compliance with the chosen option, including a proposed schedule for facility upgrade(s) if needed. [Minn. R. 7001]
5.12.28	<p>Implement Nitrogen Evaluation and Compliance Plan. [Minn. R. 7001]</p>
5.12.29	<p>Upon MPCA approval of the Nitrogen Evaluation and Compliance Plan, the Permittee shall implement the plan. If construction is necessary, the Permittee shall:</p> <ul style="list-style-type: none"> a. Submit a facility plan or engineering report by one year after submittal of the Nitrogen Evaluation and Compliance Plan b. Submit plans and specifications by 180 days prior to permit expiration c. Include the planned construction activities in the application for permit reissuance and submit the appropriate application fee by 180 days prior to permit expiration. [Minn. R. 7001]
	<p>Special Requirements</p>
5.13.57	<p>The wastewater flow to a drip irrigation zones shall not have physical or chemical characteristics that prevent the proper operation of the land disposal system. The wastewater shall be free of material that interferes with the operation of nozzles, orifices or flow measurement devices. [Minn. R. 7001]</p>
5.13.58	<p>Wastewater shall be applied so that prolonged saturated soil conditions or surface ponding do not develop due to the application. [Minn. R. 7001]</p>
5.13.59	<p>The Permittee shall maintain any drip tube filter system, if applicable, according to the manufacturer's recommendation. [Minn. R. 7001]</p>
5.13.60	<p>The Permittee shall maintain freeze protection equipment such as insulated valves and air relief vents. [Minn. R. 7001]</p>

5.13.61	The Permittee shall inspect the last emitter in each drip irrigation zone at least annually to ensure that no breakage has occurred throughout the zone and no erosion is occurring. The Permittee shall monitor pressure in each zone and refer to the baseline pressure achieved upon initial start-up to determine if a break in the line and subsequent loss of pressure has occurred. The Permittee shall maintain inspection results and the results shall be maintained on site and accessible for a period of three years. [Minn. R. 7001]
	Septic Tanks
5.14.92	Septic Tank Maintenance. [Minn. R. 7001]
5.14.93	All tanks (primary, secondary, holding, dosing, individual, etc.) associated with this system shall be operated, pumped, and maintained to ensure proper system operation and solids management. After every pumping event, all tanks shall be inspected for potential failure (such as cracks, roots, damaged baffles, etc.). Identified problems shall be corrected immediately. [Minn. R. 7001.0150, subp. 3(F)]
5.14.94	The Permittee shall keep records of all pumping, inspections, and maintenance operations for a minimum of three years. [Minn. R. 7001]
5.14.95	The owner of a septic tank(s) or tanks or the owner's agent shall arrange for the removal and proper disposal of septage from all tanks or compartments in which the top of the sludge layer is less than 12 inches below the bottom of the outlet baffle or whenever the bottom of the scum layer is less than three inches above the outlet baffle. All accumulations of sludge, scum, and liquids shall be removed through the maintenance hole. [Minn. R. 7001.0150, subp. 3(F)]
5.14.96	The Permittee shall properly clean the effluent screens as often as needed to maintain an adequate flow rate from the septic tank(s). The Permittee shall keep a record on site that indicates the dates that the effluent screens are inspected, removed, and cleaned. [Minn. R. 7001.0150, subp. 3(F)]
5.14.97	Septic tank(s) that are not specifically covered under the Limits and Monitoring section of this permit shall be inspected at least every three years and pumped as necessary unless more restrictive local requirements have been established. [Minn. R. 7001.0150, subp. 3(F)]
5.14.98	Sewage treatment system additives must not be used as a means to reduce the frequency of proper maintenance and removal of septage from the septic tank. [Minn. R. 7001.0150, subp. 3(F)]
5.14.99	Sewage treatment system additives that contain hazardous materials shall not be used in septic tanks. Discharge of animal wastes, industrial wastes, petroleum products, and toxic pollutants and other hazardous wastes or substances is prohibited. [Minn. R. 7001.0150, subp. 3(F)]
	Large Subsurface Treatment System (LSTS)
5.15.103	Unauthorized Discharge. [Minn. R. 7001]
5.15.104	There shall be no unauthorized discharge to the ground surface or surface water from these facilities. [Minn. R. 7001.0030]
5.15.105	Prohibitions. [Minn. R. 7001]
5.15.106	The Permittee shall prevent the discharge of any wastes other than sewage into any component of the facility, including septic tanks, advanced treatment systems, and soil treatment systems that could result in damage to the treatment facility or inhibit treatment unless the discharge of such other substances is specifically approved in writing by the MPCA. [Minn. R. 7001]
5.15.107	Sanitary Sewer Extension Permit. [Minn. R. 7001]
5.15.108	The Permittee may be required to obtain a sanitary sewer extension permit from the MPCA for any addition, extension, or replacement to the sanitary sewer. If a sewer extension permit is required, construction may not begin until plans and specifications have been submitted and a written permit is granted except as allowed in Minn. Stat. 115.07, subd. 3(b). [Minn. R. 7001.0020]
5.15.109	Operator Certification. [Minn. R. 7001]

5.15.110	The Permittee shall provide a Class C state certified operator who maintains direct responsibility of the operation, maintenance, and testing functions required to ensure compliance with the terms and conditions of this permit. In addition, the certified operator shall maintain a current Service Provider Certification. [Minn. R. 9400]
5.15.111	<p>If the Permittee chooses to meet operator certification requirements through a contractual agreement, the Permittee shall provide a copy of the contract to the MPCA, WQ Submittals Center. The contract shall include:</p> <p>A. The certified operator's name, certificate number, service provider certification number, company name (if appropriate), and the period covered by the contract and provisions for renewal; B. The duties and responsibilities of the certified operator; C. The duties and responsibilities of the Permittee; and D. Provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date. [Minn. R. 9400]</p>
5.15.112	The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]
5.15.113	Process Control Monitoring for Nitrogen. [Minn. R. 7001]
5.15.114	<p>The Permittee shall complete weekly process control sampling for the following parameters throughout the life of this permit. Samples shall be taken at a minimum frequency of once per week at a location following nitrification and prior to denitrification. These samples are not required to be analyzed by a certified laboratory or comply with 40 CFR pt. 136, but testing for these parameters should follow the monitoring equipment manufacturer's recommendations for use and accuracy.</p> <ul style="list-style-type: none"> - Ammonia (mg/L) - Nitrate (mg/L) - Alkalinity (mg/L) - Dissolved Oxygen (mg/L) - Temperature (degrees Celsius) - pH (Standard Units). [Minn. R. 7001]
5.15.115	The process control sampling data shall be recorded on the LSTS Process Control Monitoring for Nitrogen Form, or an alternative form approved by the MPCA, and maintained at the treatment facility for a minimum of three years. The testing data shall be available to MPCA staff upon request. The monitoring form can be found on the MPCA's website at https://www.pca.state.mn.us/business-with-us/wastewater-operator-resources . [Minn. R. 7001]
5.15.116	Operation and Maintenance Manual. [Minn. R. 7001]
5.15.117	The Permittee is required to have on site and available an updated Operation and Maintenance manual. This manual shall be available to MPCA staff upon request. [Minn. R. 7001.0150, subp. 3(F)]
5.15.118	Collection System. [Minn. R. 7001]
5.15.119	The collection system shall be properly maintained to minimize inflow, infiltration, exfiltration, and obstructions. The Permittee shall keep a record of all inspections and maintenance operations for a minimum of three years. [Minn. R. 7001.0150, subp. 3(F)]
5.15.120	Tank Maintenance. [Minn. R. 7001]
5.15.121	All tanks (primary, secondary, holding, dosing, individual, etc.) associated with this system shall be operated, pumped, and maintained to ensure proper system operation and solids management. After every pumping event, all tanks shall be inspected for potential failure (such as cracks, roots, damaged baffles, etc.). Identified problems shall be corrected immediately. [Minn. R. 7001.0150, subp. 3(F)]
5.15.122	The Permittee shall keep records of all pumping, inspections, and maintenance operations for a minimum of three years. [Minn. R. 7001]

5.15.123	The Permittee shall arrange for the removal and proper disposal of septage from all septic tanks or compartments in which the top of the sludge layer is less than 12 inches below the bottom of the outlet baffle or whenever the bottom of the scum layer is less than three inches above the outlet baffle. All accumulations of sludge, scum, and liquids shall be removed through the maintenance hole. [Minn. R. 7001.0150, subp. 3(F)]
5.15.124	The Permittee shall properly clean the effluent screens as often as needed to maintain an adequate flow rate from the septic tank(s). The Permittee shall keep a record on site that indicates the dates the effluent screens are inspected, removed, and cleaned. [Minn. R. 7001.0150, subp. 3(F)]
5.15.125	Septic tank(s) that are not specifically covered under the Limits and Monitoring section of this permit shall be inspected at least every three years and pumped as necessary unless more restrictive local requirements have been established. [Minn. R. 7001.0150, subp. 3(F)]
5.15.126	Sewage treatment system additives must not be used as a means to reduce the frequency of proper maintenance and removal of septage from the septic tank. [Minn. R. 7001.0150, subp. 3(F)]
5.15.127	Sewage treatment system additives that contain hazardous materials shall not be used in septic tanks. Discharge of animal wastes, industrial wastes, petroleum products, and toxic pollutants and other hazardous wastes or substances is prohibited. [Minn. R. 7001.0150, subp. 3(F)]
5.15.128	Facility Maintenance. [Minn. R. 7001]
5.15.129	The Permittee shall adequately protect the wastewater treatment system to prevent damage to it including but not limited to all soil treatment systems/drainfields and the reserve area. The soil treatment systems/drainfields shall be protected from disturbance, compaction, or other damage by staking, fencing, posting, or other effective method(s). [Minn. R. 7001]
5.15.130	A dense vegetative cover shall be maintained over the soil treatment system(s) at all times during the growing season to prevent the growth of unwanted vegetation such as trees, deep rooted nuisance plants, aquatic vegetation, and to prevent erosion. [Minn. R. 7001.0150, subp. 3(F)]
5.15.131	Routine maintenance shall be conducted to discourage the presence of rodents, and burrowing or other animals, on the soil treatment system and to allow inspection of observation ports installed in the soil treatment system(s) inspection pipes. [Minn. R. 7001.0150, subp. 3(F)]
5.15.132	Soil Treatment System Inspection. [Minn. R. 7001]
5.15.133	<p>Ponding depth inspections to determine the condition of each soil treatment system and drainfield standpipe shall be conducted every other month during the time the soil treatment system is in use. The inspection of each soil treatment system shall include:</p> <ul style="list-style-type: none"> A. The identification of wet or saturated areas; B. Depth of effluent ponding in the soil treatment observation ports; C. Evidence of effluent at the surface; D. Frozen components; and E. Measurements in piezometers (if installed). <p>The owner must maintain visual observations and inspection records for a minimum of three years. The results of the inspection are not required to be submitted to the MPCA but shall be made available upon request by MPCA staff. [Minn. R. 7001.0150, subp. 3(F)]</p>
5.15.134	Indications of excessive hydraulic and organic loading to the wastewater treatment facility flow rate include ineffective septic tanks or advanced treatment systems, prolonged saturated soil conditions, vegetative drowning or excessive groundwater mounding (observed from piezometers), and exceeding daily permitted flow rates as indicated by flow meters, event counters, and running time clocks. [Minn. R. 7001.0150, subp. 3(F)]
5.15.135	Expansion. [Minn. R. 7001]

5.15.136	<p>If the application rate to the drainfield(s) or the flow rate to the septic tank(s) prove to be excessive, the Permittee shall submit an application for a permit modification for appropriate expansion of the system in accordance with the permit modifications section of this permit.</p> <p>Indications of excessive flow rate include prolonged saturated soil conditions, vegetative drowning, excessive groundwater mounding, and exceeding daily permitted flow rates as indicated by flow meters. [Minn. R. 7001.0150, subp. 3(F)]</p>
5.15.137	<p>Operations and Reserve Fund Plan. [Minn. R. 7001]</p>
5.15.138	<p>The Permittee shall submit an operations and reserve fund plan : Due by 180 days after permit issuance. [Minn. R. 7001]</p>
5.15.139	<p>Within 180 days of permit issuance, the Permittee shall prepare and submit to the MPCA an Operations and Reserve Fund Plan (OFP) in accordance with the requirements below. The OFP should include an evaluation of current and future operation, maintenance, and capital costs to ensure the system is adequately funded to operate the system, maintain compliance with the MPCA Permit, and allow for system replacement and closure at the end of the system's service life. The OFP should identify the capital required for the various needs and detail what mechanism the Permittee will utilize to ensure adequate funds are available. The cost evaluation should include, but not be limited to:</p> <ul style="list-style-type: none"> A. Future equipment replacement (including but not limited to: replacement costs of soil disposal area(s), pumps, tanks, aeration equipment, etc.); B. Electricity; C. Spare parts; D. Alarms and phone services; E. Monitoring and lab fees; F. Site maintenance such as mowing and weeding; G. Appropriate hours of staffing and/or supervision by a certified operator; H. Revenue collection from the system users for O&M and capital costs; I. Decommissioning costs; and J. Other potential operation and administration expenses. [Minn. R. 7001]
5.15.140	<p>The Permittee shall address any deficiencies noted by MPCA staff and implement the plan to ensure adequate system funding. [Minn. R. 7001]</p>
5.15.141	<p>The Permittee shall evaluate the OFP annually to ensure that it remains adequately funded. If substantial changes to the original plan are required, then a revised OFP shall be submitted to the MPCA. If the plan is updated to reflect only minor changes the changes shall be incorporated into the OFP and made available upon request for inspection. [Minn. R. 7001]</p>
	<p>Biosolids Transfer</p>
5.16.145	<p>Authorization. [Minn. R. 7041]</p>
5.16.146	<p>This permit authorizes the Permittee to store and/or transfer only wastewater biosolids and/or biosolids from septic tanks to another permitted treatment facility for final treatment and disposal in accordance with the provision in this section and Minn. R. ch. 7041.</p> <p>Land application of biosolids is not authorized by this permit unless prior written approval is obtained by the MPCA. [Minn. R. 7041]</p>
5.16.147	<p>Reporting Requirements. [Minn. R. 7041]</p>
5.16.148	<p>The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December. [Minn. R. 7041.1700]</p>
5.16.149	<p>The Permittee shall submit the Biosolids Annual Report found on the MPCA's website at https://www.pca.state.mn.us/business-with-us/wastewater-operator-resources or shall provide equivalent information on another MPCA approved format. The report shall include the requirements in Minn. R. 7041.1700. [Minn. R. 7041.1700]</p>

5.16.150	<p>The Biosolids Annual Report shall be submitted by December 31 of each year for biosolids storage and/or transfer activities occurring during the cropping year previous to December 31.</p> <p>Cropping year means a year beginning on September 1 of the year prior to the growing season and ending August 31 the year the crop is harvested. For example, the 2019 cropping year began September 1, 2018 and ended August 31, 2019. [Minn. R. 7041]</p>
5.16.151	<p>The Biosolids Annual Report shall indicate whether or not biosolids were transferred and/or stored. If biosolids were transferred, the report shall describe:</p> <p>A. How much was transferred; B. Where it was transferred to; C. The name of the facility that accepted the transfer; and D. The contact person at that facility. [Minn. R. 7041]</p>
5.16.152	<p>The Permittee shall submit the Biosolids Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7041]</p>
Total Facility Requirements (SDS)	
5.17.153	<p>No Discharge. There shall be no point source discharge to surface water from the permitted activity. [Minn. R. 7001]</p>
5.17.154	<p>Definitions. Refer to the Permit User's Manual found on the MPCA's website at https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-09.pdf for standard definitions. [Minn. R. 7001]</p>
5.17.155	<p>Incorporation by Reference. This permit incorporates the following applicable federal and state laws as enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. chs. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. chs. 115 and 116. [Minn. R. 7001]</p>
5.17.156	<p>Permittee Responsibility. The Permittee shall perform the actions or conduct the activities authorized by this permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the MPCA. [Minn. R. 7001.0150, subp. 3(E)]</p>
5.17.157	<p>Toxic Discharges Prohibited. Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to 40 CFR pts. 400 to 460; Minn. R. chs. 7050, 7052, and 7053; and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]</p>
5.17.158	<p>Nuisance Conditions Prohibited. The Permittee's discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, excessive suspended solids, material discoloration, obnoxious odors, gas ebullition, deleterious sludge deposits, undesirable slimes or fungus growths, aquatic habitat degradation, excessive growths of aquatic plants, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. The discharge shall not cause a material discoloration in the receiving water. Any discharge that results in a discernable change to the existing/ambient color of the receiving water constitutes material discoloration. [Minn. R. 7050.0210, subp. 2]</p>
5.17.159	<p>Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]</p>
5.17.160	<p>Liability Exemption. In issuing this permit, the State and the MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the State and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]</p>
5.17.161	<p>The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what Minnesota statutes authorize. [Minn. R. 7001.0150, subp. 3(D)]</p>

5.17.162	Liabilities. The MPCA's issuance of this permit does not release the Permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]
5.17.163	The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]
5.17.164	Severability. The provisions of this permit are severable and, if any provisions of this permit or the application of any provision of this permit to any circumstance are held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. [Minn. R. 7001]
5.17.165	Compliance with Other Rules and Statutes. The Permittee shall comply with all applicable air quality, solid waste, and hazardous waste statutes and rules in the operation and maintenance of the facility. [Minn. R. 7001]
5.17.166	Inspection and Entry. When authorized by Minn. Stat. ch. 115.04, 115B.17, subd. 4, and 116.091, and upon presentation of proper credentials, the Permittee shall allow the MPCA, or an authorized employee or agent of the MPCA, to enter at reasonable times upon the property of the Permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling, monitoring, and other inspection equipment, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activities covered by the permit. [Minn. R. 7001.0150, subp. 3(I)]
5.17.167	Control Users. The Permittee shall regulate the users of its facility to prevent the introduction of pollutants or materials that may result in the inhibition or disruption of the conveyance system, treatment facility or processes, or disposal system that would contribute to the violation of the conditions of this permit or any federal, state, or local law or regulation. [Minn. R. 7001.0150, subp. 3(F)]
5.17.168	Sampling. [Minn. R. 7001]
5.17.169	Representative Sampling. Sampling and measurements required by the permit shall be conducted as specified in the permit and shall be representative of the discharge or monitored activities. [Minn. R. 7001.0150, subp. 2(B)]
5.17.170	Additional Sampling. If the Permittee monitors more frequently than required, they shall report the results and the frequency of monitoring on their eDMR for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]
5.17.171	Certified/Accredited Laboratory. A laboratory accredited by the Minnesota Department of Health [Minn. R. 4740.2010 through Minn. R. 4740.2120] and/or certified by the MPCA [Minn. R. 7001.4310 through Minn. R. 7001.4390] shall conduct analyses required by this permit, unless approved in writing by the MPCA. A certified/accredited laboratory does not need to complete analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine). Those analyses shall comply with 40 CFR pt. 136, including calibrations and the QA/QC section. Dissolved oxygen, pH, and total residual oxidants must be performed on-site. Follow the manufacturer's specifications for equipment maintenance and use. [Minn. R. 4740.2010-4740.2120, Minn. R. 7001.4310-7001.4390]
5.17.172	Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR pt. 136, including calibrations, the QA/QC section, and Minn. R. 7041.3200. Note - Table II of 40 CFR pt. 136.3 contains the requisite sample container, preservation (including, but not limited to thermal and pH adjustment), and holding times. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7041.3200]
5.17.173	Equipment Calibration. The Permittee shall check and/or calibrate flow meters, pumps, flumes, lift stations, or other flow monitoring equipment used for purposes of determining compliance (within plus or minus ten percent of the true flow values) with permit requirements at least twice annually. [Minn. R. 7001.0150, subp. 2(B & C)]

5.17.174	<p>Maintain Records. The Permittee shall keep the records required by this permit for at least three years, including any calculations, original recordings from automatic monitoring instruments, and laboratory sheets. The Permittee shall extend these record retention periods upon request of the MPCA. The Permittee shall maintain records for each sample and measurement. The records shall include the following information:</p> <ul style="list-style-type: none">A. The exact place, date, and time of the sample or measurement;B. The date and time of analysis;C. The name of the person who performed the sample collection, measurement, analysis, or calculation;D. The analytical techniques, procedures, and methods used; andE. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)]
5.17.175	<p>Completing Reports. The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA or as stipulated elsewhere in this permit. The Permittee shall record the information in the specified areas on those forms and in the units specified.</p> <p>Required forms may include a Sample Values Form. If required, the Permittee shall record individual values for each sample and measurement on the Sample Values Form provided by the MPCA. The Permittee shall submit the Sample Values Form with the appropriate eDMRs. The Permittee may design and use their own Sample Values Form after MPCA review and approval.</p> <p>Note: The Permittee shall also record required summary information on their eDMR. Permittee submitted summary information contained only on the Sample Values Form does not comply with reporting requirements.</p> <p>Note: The Permittee shall also record required summary information on their eDMR. Permittee submitted summary information contained only on the Sample Values Form does not comply with reporting requirements. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]</p>
5.17.176	<p>Submitting Reports. The Permittee shall submit eDMRs, Sample Values Forms, and other supplemental attachment forms via MPCA e-Services after the MPCA approves their authorization request.</p> <p>The Permittee shall electronically submit eDMRs, Sample Values Forms, and other supplemental attachment forms by the 21st day of the month following the sampling period or otherwise as specified in this permit. The Permittee shall complete eDMR submittal on or before 11:59 p.m. of the 21st day of the month following the sampling period or as otherwise specified in this permit. The Permittee shall submit an eDMR for each required station even if no discharge occurred during the reporting period.</p> <p>The Permittee shall submit other reports required by this permit electronically. The Permittee shall submit reports by the date specified in this permit. The Permittee shall submit reports on or before 11:59 p.m. on the date specified in this permit.</p> <p>Electronically: wq.submittals.mpca@state.mn.us Include water quality submittals form: www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]</p>
5.17.177	<p>Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or eDMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or eDMR. The amended report or eDMR shall contain the missing or corrected data along with a comment on the eDMR explaining the circumstances of the incomplete or incorrect report. If it is impossible to amend the report or eDMR electronically, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, subp. 3(G)]</p>

5.17.178	<p>Required Signatures. The Permittee or the duly authorized representative of the Permittee shall sign all eDMRs, forms, reports, and other documents submitted to the MPCA per Minn. R. 7001.0150, subp. 2(D). The person or persons who sign the eDMRs, forms, reports, or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. chs. 7001.0070 and 7001.0540, including the penalties for submitting false information. A registered professional engineer shall certify technical documents, such as design drawings and specifications, and engineering studies submitted as part of a permit application or by permit conditions. [Minn. R. 7001.0540]</p>
5.17.179	<p>Reporting Limit (RL). The Permittee shall report monitoring results below the RL of a particular instrument as "<" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the Permittee shall report the concentration as "< 0.1 mg/L." The Permittee shall not use "non-detected," "undetected," "below detection limit," or "zero" when reporting results. The MPCA considers these terms as permit reporting violations.</p> <p>Where sample values are less than the RL and the permit requires reporting of an average, the Permittee shall calculate the average as follows:</p> <p>A. If some values are less than (<) the RL, substitute zero for all non-detectable values to use in the average calculation;</p> <p>B. If all values are less than (<) the RL, calculate the average and report as < the RL average concentration; and</p> <p>C. To calculate a mass loading with a less than (<) the RL concentration, use the RL value in the calculation and then add the "<" to the product of the concentration and the volume. [Minn. R. 7001.0150, subp. 2(B)]</p>
5.17.180	<p>Records. The Permittee shall, when requested by the MPCA, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activities covered by the permit. [Minn. R. 7001.0150, subp. 3(H)]</p>
5.17.181	<p>Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit are available for public inspection. The MPCA does not consider effluent data confidential. To request the MPCA maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]</p>
5.17.182	<p>Noncompliance and Enforcement. [Minn. R. 7001]</p>
5.17.183	<p>Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, subp. 1(B)]</p>
5.17.184	<p>Criminal Activity. The Permittee shall not knowingly make a false statement, representation, or certification in a record or other document submitted to the MPCA. A person who falsifies a report or document submitted to the MPCA, or tampers with, or knowingly renders inaccurate a monitoring device or method that requires maintenance under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, subp. 3(G), Minn. R. 7001.1090, subp. 1(G & H), Minn. Stat. ch. 609.671, subd. 1]</p>
5.17.185	<p>Noncompliance Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 122.41(c)]</p>

5.17.186	<p>Effluent Violations. If sampling by the Permittee indicates a violation of any discharge limitation specified in this permit, the Permittee shall immediately make every effort to verify the violation by collecting additional samples, if appropriate, investigate the cause of the violation, and take action to prevent future violations.</p> <p>If the Permittee discovers that noncompliance with a condition of the permit occurred and that the noncompliance could endanger human health, public drinking water supplies, or the environment, the Permittee shall within 24 hours of the discovery of the noncompliance orally notify the Commissioner and submit a written description of the noncompliance within five days of the discovery.</p> <p>If the Permittee discovers other noncompliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the Permittee shall report the description of noncompliance within 30 days of the discovery. If no eDMR is required within 30 days, the Permittee shall submit a written report (see the Submitting Reports part of this chapter) including the description of noncompliance within 30 days of the discovery of the noncompliance. This description shall include the following information:</p> <ul style="list-style-type: none">A. A description of the event including volume, duration, monitoring results, and receiving waters;B. The cause of the event;C. The steps taken to reduce, eliminate, and prevent reoccurrence of the event;D. The exact dates and times of the event; andE. Steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.0150, subp. 3(K)]
5.17.187	<p>Upset Defense. In the event of temporary noncompliance with an applicable effluent limitation(s) resulting from an upset at the Permittee's facility due to factors beyond the control of the Permittee, the Permittee has an affirmative defense to an enforcement action brought by the MPCA as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:</p> <ul style="list-style-type: none">A. The specific cause of the upset;B. That the upset was unintentional;C. That the upset resulted from factors beyond the reasonable control of the Permittee and did not result from operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or increases in production which are beyond the design capability of the treatment facilities;D. That at the time of the upset the facility was being properly operated;E. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1(I); andF. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]
5.17.188	<p>Release. [Minn. R. 7001]</p>
5.17.189	<p>Unauthorized Releases of Wastewater Prohibited. This permit prohibits overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, except for discharges from outfalls specifically authorized by this permit. The MPCA will consider the Permittee's compliance with permit requirements, frequency of release, quantity, type, location, and other relevant factors when determining appropriate action. [Minn. Stat. ch. 115.061]</p>

5.17.190	<p>Discovery of a Release. Upon discovery of a release, the Permittee shall:</p> <p>A. Take all reasonable steps to immediately end the release;</p> <p>B. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon discovery of the release. In addition to the required notification to the Duty Officer, the Permittee may also contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area);</p> <p>C. Promptly after notifying the agency of a discharge, a publicly owned treatment works or a publicly or privately owned domestic sewer system owner must provide notice to the potentially impacted public and to any downstream drinking water facility that may be impacted by the discharge. Notice to the public and to any drinking water facility must be made using the most efficient communications system available to the facility owner such as in person, telephone call, radio, social media, web page, or another expedited form. In addition, signage must be posted at all impacted public use areas within the same jurisdiction or notification must be provided to the entity that has jurisdiction over any impacted public use areas. A notice under this paragraph must include the date and time of the discharge, a description of the material released, a warning of the potential public health risk, and the permittee's contact information; and</p> <p>D. Recover as rapidly and as thoroughly as possible all substances and materials released or immediately take other action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If the Permittee cannot immediately or completely recover the released materials or substances, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090, Minn. Stat. ch. 115.061, subp. C]</p>
5.17.191	<p>Sampling of a Release. Upon discovery of a release, the Permittee shall:</p> <p>A. Collect representative samples of the release. The Permittee shall sample the release for permitted effluent parameters and other parameters of concern immediately following discovery of the release. The Permittee may contact the MPCA during business hours to discuss the sampling parameters and protocol. In addition, the Permittee shall collect fecal coliform bacteria samples where the Permittee determines that the release contains or may contain sewage. If the Permittee cannot immediately stop the release, the Permittee shall consult with the MPCA regarding additional sampling requirements. The Permittee shall collect samples at least, but not limited to, two times per week for as long as the release continues, or as stipulated elsewhere in this permit;</p> <p>B. The Permittee shall submit the Release Report information according to guidance found here: https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-20a.docx. The Permittee shall submit the Release Report to the MPCA with the next eDMR or within 30 days, whichever is sooner. If the Permittee submits quarterly eDMRs and the next submittal is greater than 30 days, the Release Report may be submitted to the water quality submittals email address (see the Submitting Reports part of this chapter); and</p> <p>C. Submit the sampling results on the Release Report located on the MPCA's website at https://www.pca.state.mn.us/business-with-us/discharge-monitoring-reports. [Minn. R. 7001.1090]</p>
5.17.192	<p>Bypass. [Minn. R. 7001]</p>
5.17.193	<p>"Essential Maintenance" is a scheduled maintenance event that is required to ensure efficient operation of the facility. [Minn. R. 7001.1020, subp. 13]</p>
5.17.194	<p>"Effluent limitation" means a restriction established by rule or permit condition on quantities, discharge rates, and concentrations of pollutants that are discharged from point sources into waters of the state. [Minn. R. 7001.1020, subp. 13]</p>

5.17.195	<p>Anticipated Bypass. The Permittee may allow any bypass to occur that does not cause effluent limitation exceedances, but only if the bypass is for a scheduled essential maintenance event to assure efficient operation of the facility. The Permittee shall submit prior notice to the MPCA at least ten days before the date of the bypass, if possible. The notice of the need for an anticipated bypass shall include the following information:</p> <ul style="list-style-type: none">A. The proposed date and estimated duration of the bypass;B. The alternatives to bypassing; andC. A proposal for effluent sampling during the bypass. Any bypass wastewater shall enter waters of the state from outfalls specifically authorized by this permit. Therefore, the Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. [Minn. R. 7001.1090, subp. 1(J)]
5.17.196	<p>Any bypass that is not anticipated for a scheduled essential maintenance event is considered unanticipated and is prohibited. This permit prohibits all other bypasses.</p> <p>In the event of an unanticipated bypass, the Permittee shall:</p> <ul style="list-style-type: none">A. Take all reasonable steps to immediately end the bypass;B. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon commencement of the bypass. In addition to the required notification to the Duty Officer, the Permittee may also contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area);C. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies for implementation of abatement, clean up, or remediation activities; andD. The Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. The Permittee shall also follow the reporting requirements for effluent violations as specified in this permit. [Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]
5.17.197	<p>Notification of the Public. Following immediate notification to the Minnesota Department of Public Safety Duty Officer and the MPCA of any discharge event that could endanger human health, public drinking water supplies, or the environment, or a Release or Bypass, as described above, the Permittee shall promptly notify the public and any drinking water facility of the discharge.</p> <p>Notice to the public and to any drinking water facility must be made using the most efficient communications system available to the facility owner such as in person, telephone call, radio, social media, webpage, or another expedited form. In addition, signage must be posted at all impacted public use areas within the same jurisdiction or notification must be provided to the entity that has jurisdiction over any impacted public use areas. A notice under this requirement must include the date and time of the discharge, a description of the material released, a warning of the potential public health risk, and the Permittee's contact information. [Minn. Stat. ch. 115.061]</p>
5.17.198	<p>In addition to other facts or incidents required by the permit to be reported within 24 hours, the Permittee shall report in accordance with part 7001.0150, subpart 3, item K any unanticipated bypass, or upset that causes an exceedance of an applicable effluent limitation. [Minn. R. 7001.1090, subp. 1]</p>
5.17.199	<p>Operation and Maintenance. [Minn. R. 7001]</p>

5.17.200	<p>The Permittee shall at all times properly operate and maintain the facilities, sewer system, and systems of treatment and control, and the appurtenances related to them which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The Permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible. [Minn. R. 7001.0150, subp. 3(F)]</p>
5.17.201	<p>In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail discharges to the extent necessary to maintain compliance with the terms and conditions of this permit. The Permittee shall continue this control or curtailment until they restore facility treatment processes or until the Permittee provides an alternative method of treatment. [Minn. R. 7001.1090, subp. 1(C)]</p>
5.17.202	<p>Solids Management. The Permittee shall properly store, transport, and manage biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or groundwaters of the state. The Permittee shall manage solids in accordance with local, state, and federal requirements. [40 CFR 503, Minn. R. 7041]</p>
5.17.203	<p>Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent water quality degradation, except where the facility requires emergency maintenance to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]</p>
5.17.204	<p>Control Tests. The Permittee shall conduct in-plant control tests at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]</p>
5.17.205	<p>Changes to the Facility or Permit. [Minn. R. 7001]</p>
5.17.206	<p>Permit Modifications. Except as provided under Minn. Stat. ch. 115.07, subd. 1 and 3, no person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted, nor shall a person commence an activity for which a permit is required by statute or rule until the MPCA issues a written permit for the facility or activity.</p> <p>Permittees that propose to make changes to the facility or discharge that requires permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether the proposed changes require a permit modification, the Permittee shall contact the MPCA prior to any action. The MPCA recommends that Permittees submit the application for permit modification to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]</p>
5.17.207	<p>This permit does not require plans, specifications, and MPCA approval when maintenance dictates the need for installation of new equipment, provided the equipment is the same design size and has the same design intent. For instance, Permittees can replace a broken pipe, lift station pump, aerator, or blower with the same design-sized equipment without MPCA approval.</p> <p>If this permit does not expressly authorize proposed construction, the MPCA may require a permit modification. If the proposed construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until the MPCA issues a negative declaration and the Permittee receives or implements all approvals. [Minn. R. 7001.0030]</p>
5.17.208	<p>Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(M)]</p>

5.17.209	<p>Chemical Additives. The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature, and/or quality of the discharge.</p> <p>The Permittee shall request approval for an increase or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increase or new use. The Permittee shall include at least the following information for the proposed additive as instructed in the chemical additive approvals section on the MPCA's website at https://www.pca.state.mn.us/business-with-us/wastewater-permit-additional-guidance-and-information (under Chemical additive approvals):</p> <ul style="list-style-type: none">A. Follow Chemical Additive Review Guidance (wq-prm2-12) and complete the Chemical Additive calculator tool (wq-wwprm2-12a.xlsm), including;B. The process for which the additive will be used;C. Safety Data Sheet (SDS) which shall include aquatic toxicity, human health, and environmental fate information for the proposed additive. The aquatic toxicity information shall include at minimum the results of: a) a 48-hour LC50 or EC50 acute study for a North American freshwater planktonic crustacean (such as Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50/EC50 acute study such as rainbow trout, bluegill, or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean;D. A complete product use and instruction label;E. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the SDS does not include information on chemical composition, including percentages for each ingredient totaling to 100%, the Permittee shall contact the supplier to have this information provided); andF. The proposed method of application, application frequency, and maximum rates of use. <p>Upon review of the information submitted regarding the proposed chemical additive, the MPCA may require additional information be submitted for consideration. This permit may be modified to restrict the use or discharge of a chemical additive and include additional influent and effluent monitoring requirements. Approval for the use of an additive or use of an additive not requiring formal review and approval shall not justify the exceedance of any effluent limitation nor shall it be used as a defense against pollutant levels in the discharge causing or contributing to the violation of a water quality standard, including nuisance conditions and material discoloration. [Minn. R. 7001.0170]</p>
5.17.210	<p>MPCA-Initiated Permit Modification, Suspension, or Revocation. The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance of this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]</p>
5.17.211	<p>Total Maximum Daily Load (TMDL) Impacts. The MPCA may require facilities that discharge to an impaired surface water, watershed, or drainage basin to comply with additional permits or permit requirements. These requirements can include additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR ch. 122.44(l)(2)(i), necessary to ensure consistency with the assumptions and requirements of any applicable EPA approved wasteload allocations resulting from TMDL studies. [40 CFR 122.44(l)(2)(i)]</p>
5.17.212	<p>Permit Transfer. This permit is not transferable to any person without the express written approval of the MPCA after compliance with the requirements of Minn. R. 7001.0190. A person who receives permit transference shall comply with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(N)]</p>

5.17.213	<p>Facility Closure or Significant Reduction in Activity. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The Permittee may submit a Facility Closure Plan to the MPCA no later than 150 days prior to the Facility Closure, and the MPCA may require submittal of a Facility Closure Plan via written notification. The Permittee may comply with the submitted Facility Closure Plan.</p> <p>The MPCA may require a permit modification or reissuance for facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or groundwater.</p> <p>The MPCA may require the Permittee to establish and maintain financial assurance to ensure performance of certain obligations under this permit, including closure, post-closure care, and remedial action at the facility. If the MPCA requires financial assurance, the MPCA shall approve the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance. [Minn. Stat. ch. 116.07, subd. 4]</p>
5.17.214	<p>Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]</p>
5.17.215	<p>If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following:</p> <ul style="list-style-type: none">A. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit;B. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; orC. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of deficiencies. [Minn. R. 7001.0040, Minn. R. 7001.0160]

6. Submittal action summary

GW 001	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	6.1.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
GW 002	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	6.2.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
GW 003	Well, Other	
		Groundwater Well: Large Subsurface Sewage Treatment System Well Monitoring Requirements
	6.3.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
WS 001	Influent Waste	
		Waste Stream: Large Subsurface Sewage Treatment System Influent Monitoring Requirements
	6.4.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
WS 004	Intermediate: WW to Land	
		Waste Stream: Large Subsurface Sewage Treatment System Groundwater Well Compliance Point Requirements
	6.5.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
WS 005	Internal Waste Stream	
		Waste Stream: Drainfield Septic Tank Requirements
	6.6.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
WS 006	Internal Waste Stream	
		Waste Stream: Drainfield Septic Tank Requirements
	6.7.1	The Permittee shall submit a quarterly DMR : Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]

WS 007	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	6.8.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
WS 008	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	6.9.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
MN0067954	Farms of Lake Elmo WWTP	
		Compliance Schedule Requirements
	6.10.1	Within 365 days of permit issuance, the Permittee shall complete and submit for MPCA review and approval a Nitrogen Mitigation and Analysis Plan. The Permittee shall submit a Nitrogen Mitigation and Analysis Plan: Due by one year after permit issuance The Permittee shall begin implementing the Plan immediately after MPCA approval. [Minn. R. 7001]
	6.10.2	Within three years after permit issuance, the Permittee shall prepare and submit for MPCA review and approval a Nitrogen Evaluation and Compliance Plan. The Permittee shall submit a plan: Due by three years after permit issuance. [Minn. R. 7001]
		Large Subsurface Treatment System (LSTS)
	6.11.3	The Permittee shall submit an operations and reserve fund plan : Due by 180 days after permit issuance. [Minn. R. 7001]
		Biosolids Transfer
	6.12.4	The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December. [Minn. R. 7041.1700]
		Total Facility Requirements (SDS)
	6.13.5	Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]

7. Limits and monitoring

The Permittee shall comply with the limits and monitoring requirements as specified below.

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
GW 001 Groundwater Well #1 - Northwest corner	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Elevation of GW Relative to Mean Sea Level		Monitor only. instantaneous maximum	feet					once per month	Measurement, Instantaneous	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Nitrite Plus Nitrate, Total (as N)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Nitrogen, Ammonia, Total (as N)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Nitrogen, Kjeldahl, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	pH				Monitor only. instantaneous minimum		Monitor only. instantaneous maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Specific Conductance						Monitor only. instantaneous maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 001 Groundwater Well #1 - Northwest corner	Temperature, Water (C)						Monitor only. instantaneous maximum	degrees Celsius	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Elevation of GW Relative to Mean Sea Level		Monitor only. instantaneous maximum	feet					once per month	Measurement, Instantaneous	Apr, Jul, Oct	

Subject item	Parameter	Discharge limitations					Monitoring requirements					Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
GW 002 Groundwater Well #2 - South side	Nitrite Plus Nitrate, Total (as N)						10 calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Nitrogen, Ammonia, Total (as N)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Nitrogen, Kjeldahl, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	pH				Monitor only. instantaneous minimum		Monitor only. instantaneous maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Specific Conductance						Monitor only. instantaneous maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 002 Groundwater Well #2 - South side	Temperature, Water (C)						Monitor only. instantaneous maximum	degrees Celsius	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Elevation of GW Relative to Mean Sea Level		Monitor only. instantaneous maximum	feet					once per month	Measurement, Instantaneous	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Nitrite Plus Nitrate, Total (as N)						10 calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Nitrogen, Ammonia, Total (as N)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Nitrogen, Kjeldahl, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Apr, Jul, Oct	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
GW 003 Groundwater Well #3 - Southeast corner	pH				Monitor only. instantaneous minimum		Monitor only. instantaneous maximum	standard units	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Specific Conductance						Monitor only. instantaneous maximum	micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW 003 Groundwater Well #3 - Southeast corner	Temperature, Water (C)						Monitor only. instantaneous maximum	degrees Celsius	once per month	Grab	Apr, Jul, Oct	
WS 001 Influent Waste Stream	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 001 Influent Waste Stream	pH				Monitor only. calendar month minimum		Monitor only. calendar month maximum	standard units	twice per month	Grab	Jan-Dec	
WS 001 Influent Waste Stream	Precipitation		Monitor only. calendar month total	inches					once per day	Measurement	Jan-Dec	
WS 001 Influent Waste Stream	Solids, Total Suspended (TSS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 004 Effluent to Drainfield	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 004 Effluent to Drainfield	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
WS 004 Effluent to Drainfield	Flow		Monitor only. calendar month total	million gallons		0.010050 calendar month average	0.015075 daily maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
WS 004 Effluent to Drainfield	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 004 Effluent to Drainfield	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 004 Effluent to Drainfield	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	twice per month	Calculation	Jan-Dec	
WS 004 Effluent to Drainfield	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 004 Effluent to Drainfield	Solids, Total Suspended (TSS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS 005 Tank Monitoring - 12,000 gallon septic tank -1st compartment	Remaining Scum Capacity		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 005 Tank Monitoring - 12,000 gallon septic tank -1st compartment	Remaining Sludge Capacity		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
WS 005 Tank Monitoring - 12,000 gallon septic tank -1st compartment	Scum Depth, Maximum of Sample		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 005 Tank Monitoring - 12,000 gallon septic tank -1st compartment	Sludge Depth, Maximum of Sample		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 006 Tank Monitoring - 12,000 gallon septic tank - 2nd compartment	Remaining Scum Capacity		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 006 Tank Monitoring - 12,000 gallon septic tank - 2nd compartment	Remaining Sludge Capacity		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 006 Tank Monitoring - 12,000 gallon septic tank - 2nd compartment	Scum Depth, Maximum of Sample		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 006 Tank Monitoring - 12,000 gallon septic tank - 2nd compartment	Sludge Depth, Maximum of Sample		Monitor only. calendar quarter maximum	inches					once per quarter	Measurement	Jan-Dec	
WS 007 Tank Monitoring - 9,000 gallon MICROFAST	Remaining Scum Capacity		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 007 Tank Monitoring - 9,000 gallon MICROFAST	Remaining Sludge Capacity		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 007 Tank Monitoring - 9,000 gallon MICROFAST	Scum Depth, Maximum of Sample		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
WS 007 Tank Monitoring - 9,000 gallon MICROFAST	Sludge Depth, Maximum of Sample		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 008 Tank Monitoring - 9,000 gallon NITRIFAST	Remaining Scum Capacity		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 008 Tank Monitoring - 9,000 gallon NITRIFAST	Remaining Sludge Capacity		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 008 Tank Monitoring - 9,000 gallon NITRIFAST	Scum Depth, Maximum of Sample		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	
WS 008 Tank Monitoring - 9,000 gallon NITRIFAST	Sludge Depth, Maximum of Sample		Monitor only. calendar month maximum	inches					once per month	Measurement	Apr, Oct	