



Minnesota Pollution Control Agency

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June 5, 2014

Mr. Dennis Loewen, Administrator
Clearwater River Watershed District
P.O. Box 481
Annandale, MN 55302-0481

RE: Final Reissued SDS Permit Number MN0065226
Clearwater Harbor Wastewater Treatment Facility
T122N, R27W, Section 32, Lynden Township, Stearns County, Minnesota

Dear Mr. Loewen:

Enclosed is the final State Disposal System (SDS) permit for your facility. This permit supersedes an earlier SDS permit that was issued on August 5, 2009. No written comments were received during the public notice comment period for the draft permit.

It is the responsibility of the Permittee to maintain compliance with all of the terms and conditions of this permit. Please carefully review the entire permit. A "Submittals Checklist" that is specific for your facility is also enclosed for your use. You may find this checklist to be a convenient tool in tracking the due dates and status of submittals required by the final issued permit.

Special attention should be directed to the following:

Limits and Monitoring Requirements

Ground Water Stations – Because of groundwater flow direction at the site, several changes have been made to the Summary of Stations page under "Type of Station" and "Local Name": Station GW001 has been changed to a lateral well, Station GW003 has been changed to an up-gradient well, and Station GW005 has been changed to an up-gradient well.

Nitrogen Mitigation and Analysis Plan - Nitrogen concentrations have shown an increase in trending in monitoring well GW004; from 33.3 mg/L in the spring of 2013 to 47.1 mg/L in the fall of 2013. The State of Minnesota has a Drinking Water Quality Standard of 10 mg/L, which this well is failing to meet. This permit requires the submittal and implementation of a Nitrogen Mitigation and Analysis Plan to address these elevated levels. Annual progress reports must also be submitted to the MPCA each year by December 31. In addition, a limit of 10 mg/L has been placed on both down-gradient monitoring wells – GW004 and GW006. The Permittee must meet this limit by one day prior to permit expiration. Because this new limit goes into effect at the end of the permit cycle, this permit includes both interim and final period limits. The interim and final period limits are the same with the exception of the new Total Nitrite Plus Nitrate limit.

Total Coliform – Because the data shows no concerns at this time regarding Total Coliform at the Groundwater Monitoring Wells, this parameter has been removed from all of the Groundwater Stations.

Mr. Dennis Loewen, Administrator

Page 2

June 5, 2014

Waste Stream Stations WS004 and WS005 - To be consistent with requirements at other large subsurface treatment systems (LSTs) in the State of Minnesota, Stations WS004 and WS005 have been removed from the permit. Sludge and scum measurements are required for LSTs in the final septic tank in the series.

Waste Stream Stations WS007 and WS008 – Again, to be consistent with requirements at other LSTs in the State of Minnesota, Stations WS007 and WS008 now include the following additional parameters: Total Nitrite Plus Nitrate (as N) and Total Kjeldahl Nitrogen. These parameters were added to ensure accurate reporting of Total Nitrogen. Total Nitrogen should be reported as the summation of Total Nitrite Plus Nitrate (as N) and Total Kjeldahl Nitrogen.

Chapter 1: Compliance Schedule

This Chapter describes the requirement for submittal and implementation of a Nitrogen Mitigation and Analysis Plan for this facility. Annual reports are required to be submitted as well, with the first due on December 31, 2015.

Chapter 5: Total Facility Requirements

The Facility is required to manage all septage material in accordance with 40 CFR 503 requirements regarding septage disposal.

Certified Laboratory - Effective January 1, 2013, all Minnesota municipal, county or industrial laboratories that analyze wastewater per Clean Water Act requirements must be registered by the MPCA. Commercial laboratories doing these analyses do not require MPCA registration, but must maintain Minnesota Department of Health certification. Information regarding MPCA laboratory registration is located on the MPCA website at <http://www.pca.state.mn.us/ktqh3d9>. If you have questions concerning MPCA laboratory registration, please contact Sandy McDonald at sandy.mcdonald@state.mn.us or at 651-757-2560.

Questions about your permit should be directed to the appropriate staff contacts listed on the first page of your permit.

Sincerely,



Ronald R. Swenson, Supervisor
North Central Regional Office
Municipal Division

RRS/HC/db

Enclosure

cc: Brian Koski, Septic Check, Milaca (w/enclosures)
Norman Wenck, Wenck Associates, Inc., Maple Plain (w/enclosures)
Anne Ackerman, Lynden Township Chair, Clearwater (w/enclosures)



STATE OF MINNESOTA

Minnesota Pollution Control Agency

Municipal Division

State Disposal System (SDS) Permit MN0065226


PERMITTEE: Clearwater River Watershed District
FACILITY NAME: Clearwater Harbor Wastewater Treatment Facility

TOWNSHIP: Lynden COUNTY: Stearns
ISSUANCE DATE: June 5, 2014 EXPIRATION DATE: May 31, 2019

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 Minnesota and US statutes and rules, including Minn. Stat. chs. 115 and 116, Minn. R. chs. 7001, 7050, 7053, 7060, and the US Clean Water Act.

This permit is effective on the issuance date identified above, and supersedes the previous permit that was issued for this facility on August 5, 2009. This permit expires at midnight on the expiration date identified above.

Signature:  for
Ronald R. Swenson, Supervisor for The Minnesota Pollution Control Agency
North Central Regional Office
Municipal Division

Submit eDMRs

Submit via the MPCA Online Services Portal at
<https://netweb.pca.state.mn.us/private/>

Submit Other WQ Reports to:

Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Rd N
St Paul, MN 55155-4194

Questions on this permit?

- For eDMR and other permit reporting issues, contact:
Jennifer Satnik, 651-757-2692.
- For specific permit requirements or permit compliance status, contact:
Justin Barrick, 218-316-3858.
- General permit or NPDES program questions, contact:
MPCA, 651-282-6143 or 1-800-657-3938.

520 Lafayette Rd. N.; St. Paul, MN 55155-4194; 651-296-6300 (voice); 651-282-5332 (TTY)

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Facility Description

The Clearwater Harbor Wastewater Treatment Facility (Facility) is located in the NW 1/4 of Section 32, Township 122 North, Range 27 West, Lynden Township, Stearns County, Minnesota. This is a Class C Facility.

This permit covers two separate wastewater treatment systems with separate names. The two systems are located next to each other and are owned by the Clearwater River Watershed District. Both the Hidden River wastewater treatment system and the Clearwater Harbor wastewater treatment system are covered under the permit for the Clearwater Harbor Facility. The two treatment systems have a combined design average wet weather flow (AWWF) of 45,000 gallons per day (gpd).

Major components of the Facility include:

Hidden River	Clearwater Harbor
31 Individual Septic Tanks	4 Lift Stations
1 Lift Station	3-15,000 gallon Septic Tanks
1-20,000 gallon Recirculating and Holding Tank	1 Recirculating Tank
1 Recirculating Media Filter – sand/gravel	1 Recirculating Media Filter – sand/gravel
1 Dosing Lift Station	1 Subsurface Trench
1 Subsurface Trench	

Hidden River Wastewater Treatment System

The existing Hidden River treatment system services a 31 single family housing development. The system for this development consists of individual septic tanks, a collection system, a lift station, one 20,000 gallon recirculation and holding tank, one 3,300 square foot recirculating sand filter, a drainfield dosing lift station and 3,600 linear feet of 36 inch width drainfield trenches. This system is designed to treat an AWWF of 17,000 gpd.

Clearwater Harbor Wastewater Treatment System

The existing Clearwater Harbor treatment system services an 82 single family housing development. The system for this development consists of eight-inch gravity sewer collection lines with four lift stations and four-inch force mains to the treatment system. The system consist of three 15,000 gallon septic tanks in series, a 30,000 gallon recirculation tank, a 5,600 square foot recirculating sand filter and 6,400 lineal feet of drainfield. The sand filter is dosed with four 50 gallons per minute pumps that alternate with two cells each with five zones. Effluent passes through the sand filter to a splitter valve where 80 percent returns to the tank for further treatment. The remaining 20 percent enters a lift station and is pumped to the pressurized drainfield system. This system is designed to treat and AWWF of 28,000 gpd.

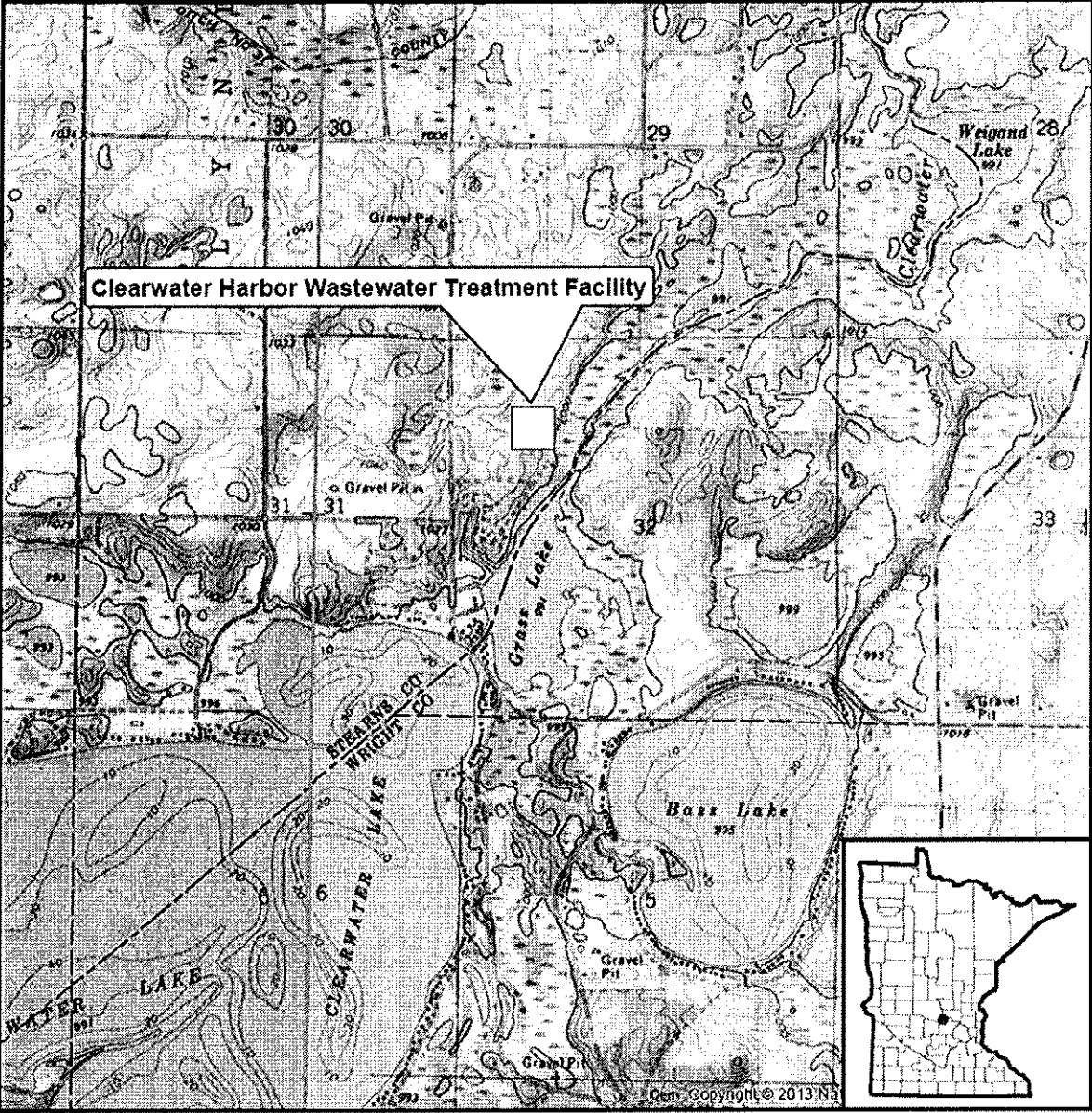
There are no bypass points known to exist in either system. This permit does not authorize any discharge to surface waters.

The Facility is further described in plans and specifications on file and in engineering reports by Wenck Associates, Inc., Maple Plain, Minnesota.

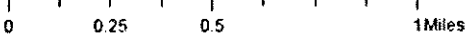
The location of the Facility is shown on the "Topographic Map of Permitted Facility" on page 4. The location of designated monitoring stations is specified on the "Summary of Stations" on page 5.

Topographic Map of Permitted Facility

MN0065226: Clearwater Harbor Wastewater Treatment Facility
T122N, R27W, Section 32
Lynden Township, Stearns County, Minnesota



Map produced by: MPCA Staff, 2/4/2014
Source: USGS Quad, Clearwater Harbor WWTF
Scale: 1:24,000



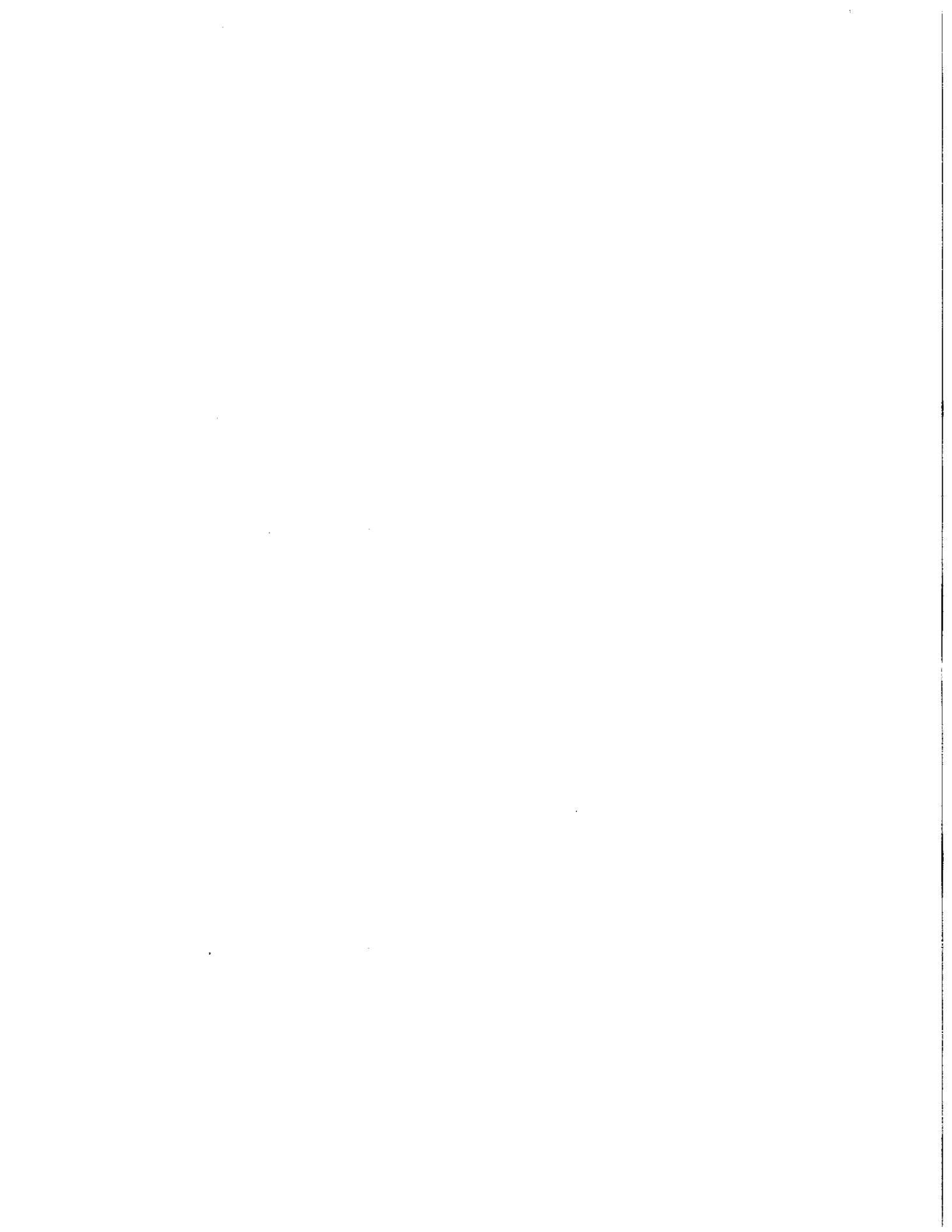
Clearwater Harbor Wastewater Treatment Facility Summary of Stations

Ground Water Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
GW001	Well, Other	Hidden River Lateral Well (#3)	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
GW002	Well, Other	Hidden River Lateral Well (#1)	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
GW003	Well, Upgradient	Hidden River Upgradient Well (#2)	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
GW004	Well, Downgradient	Clearwater Harbor Downgradient Well (#1)	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
GW005	Well, Upgradient	Clearwater Harbor Upgradient Well	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
GW006	Well, Downgradient	Clearwater Harbor Downgradient Well (#2)	NW Quarter of Section 32, Township 122 North, Range 27 West

Waste Stream Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
WS001	Influent Waste	Hidden River Influent Monitoring Site	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
WS002	Influent Waste	Clearwater Harbor Influent Monitoring Site	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
WS003	Internal Waste Stream	Hidden River 20,000 Gallon Septic Tank	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
WS006	Internal Waste Stream	Clearwater Harbor Septic Tank #3	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
WS007	Intermediate: WW to Land	Clearwater Harbor Effluent Sample Site	NW Quarter of the NW Quarter of Section 32, Township 122 North, Range 27 West
WS008	Intermediate: WW to Land	Hidden River Effluent Sample Site	NW Quarter of Section 32, Township 122 North, Range 27 West



Clearwater Harbor Wastewater Treatment Facility Limits and Monitoring Requirements

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

Period: Limits Applicable in the Interim Period

GW 001, GW 002, GW 003, GW 005

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Instantaneous Maximum	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	3
Nitrite Plus Nitrate, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
pH, Field	Monitor Only	SU	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
pH, Field	Monitor Only	SU	Instantaneous Minimum	Apr, Jul, Oct	Grab	1 x Month	2
Specific Conductance, Field	Monitor Only	umh/cm	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
Temperature, Water (C)	Monitor Only	Deg C	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2

GW 004, GW 006

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Instantaneous Maximum	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	3
Nitrite Plus Nitrate, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
pH, Field	Monitor Only	SU	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
pH, Field	Monitor Only	SU	Instantaneous Minimum	Apr, Jul, Oct	Grab	1 x Month	2
Specific Conductance, Field	Monitor Only	umh/cm	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
Temperature, Water (C)	Monitor Only	Deg C	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2

WS 001

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	
Flow	0.017	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	0.0255	mgd	Daily Maximum	Jan-Dec	Measurement, Continuous	1 x Day	

Clearwater Harbor Wastewater Treatment Facility Limits and Monitoring Requirements

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

Period: *Limits Applicable in the Interim Period*

WS 001

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
pH	Monitor Only	SU	Calendar Month Maximum	Jan-Dec	Grab	2 x Month	1
pH	Monitor Only	SU	Calendar Month Minimum	Jan-Dec	Grab	2 x Month	1
Precipitation	Monitor Only	in	Calendar Month Total	Jan-Dec	Measurement	1 x Day	
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	

WS 002

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	
Flow	0.028	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	0.042	mgd	Daily Maximum	Jan-Dec	Measurement, Continuous	1 x Day	
pH	Monitor Only	SU	Calendar Month Maximum	Jan-Dec	Grab	2 x Month	1
pH	Monitor Only	SU	Calendar Month Minimum	Jan-Dec	Grab	2 x Month	1
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	

WS 003, WS 006

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Remaining Scum Capacity	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Remaining Sludge Capacity	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Scum Depth, Maximum of Sample	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Sludge Depth, Maximum of Sample	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	

WS 007, WS 008

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Chloride, Total	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrite Plus Nitrate, Total (as N)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrogen, Total (as N)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	4

Clearwater Harbor Wastewater Treatment Facility

Limits and Monitoring Requirements

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

Period: Limits Applicable in the Interim Period

WS 007, WS 008

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	

Period: Limits Applicable in the Final Period

GW 001, GW 002, GW 003, GW 005

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Instantaneous Maximum	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	3
Nitrite Plus Nitrate, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
pH, Field	Monitor Only	SU	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
pH, Field	Monitor Only	SU	Instantaneous Minimum	Apr, Jul, Oct	Grab	1 x Month	2
Specific Conductance, Field	Monitor Only	umh/cm	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
Temperature, Water (C) ^x	Monitor Only	Deg C	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2

GW 004, GW 006

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Elevation of GW Relative to Mean Sea Level	Monitor Only	feet	Instantaneous Maximum	Apr, Jul, Oct	Measurement, Instantaneous	1 x Month	3
Nitrite Plus Nitrate, Total (as N)	10	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Ammonia, Total (as N)	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Month Maximum	Apr, Jul, Oct	Grab	1 x Month	
pH, Field	Monitor Only	SU	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
pH, Field	Monitor Only	SU	Instantaneous Minimum	Apr, Jul, Oct	Grab	1 x Month	2
Specific Conductance, Field	Monitor Only	umh/cm	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2
Temperature, Water (C)	Monitor Only	Deg C	Instantaneous Maximum	Apr, Jul, Oct	Grab	1 x Month	2

Clearwater Harbor Wastewater Treatment Facility Limits and Monitoring Requirements

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

Period: *Limits Applicable in the Final Period*

WS 001

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	
Flow	0.017	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	0.0255	mgd	Daily Maximum	Jan-Dec	Measurement, Continuous	1 x Day	
pH	Monitor Only	SU	Calendar Month Maximum	Jan-Dec	Grab	2 x Month	1
pH	Monitor Only	SU	Calendar Month Minimum	Jan-Dec	Grab	2 x Month	1
Precipitation	Monitor Only	in	Calendar Month Total	Jan-Dec	Measurement	1 x Day	
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	

WS 002

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	
Flow	0.028	mgd	Calendar Month Average	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	Monitor Only	MG	Calendar Month Total	Jan-Dec	Measurement, Continuous	1 x Day	
Flow	0.042	mgd	Daily Maximum	Jan-Dec	Measurement, Continuous	1 x Day	
pH	Monitor Only	SU	Calendar Month Maximum	Jan-Dec	Grab	2 x Month	1
pH	Monitor Only	SU	Calendar Month Minimum	Jan-Dec	Grab	2 x Month	1
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Month Average	Jan-Dec	Grab	2 x Month	

WS 003, WS 006

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Remaining Scum Capacity	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Remaining Sludge Capacity	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Scum Depth, Maximum of Sample	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	
Sludge Depth, Maximum of Sample	Monitor Only	in	Calendar Quarter Maximum	Jan-Dec	Measurement	1 x Quarter	

WS 007, WS 008

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
BOD, Carbonaceous 05 Day (20 Deg C)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	

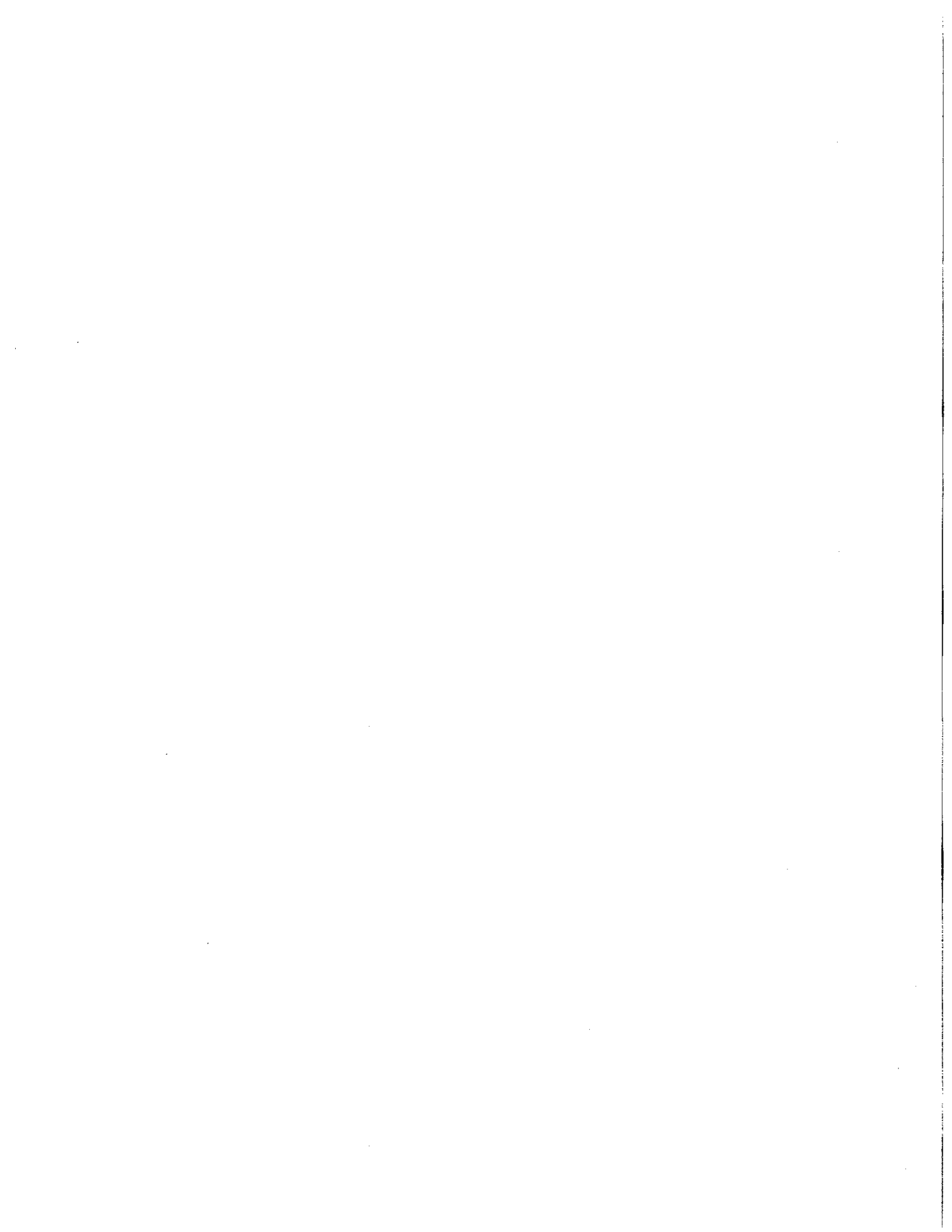
Clearwater Harbor Wastewater Treatment Facility Limits and Monitoring Requirements

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

Period: *Limits Applicable in the Final Period*
WS 007, WS 008

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
Chloride, Total	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrite Plus Nitrate, Total (as N)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrogen, Kjeldahl, Total	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	
Nitrogen, Total (as N)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	4
Solids, Total Suspended (TSS)	Monitor Only	mg/L	Calendar Quarter Average	Jan-Dec	Grab	1 x Quarter	

Notes:
 1 -- Analyze immediately. Except weekends or holidays. This means within 15 minutes or less of sample collection.
 2 -- Final field measurement from stabilization tests at all monitoring wells may be used.
 3 -- Measured to the nearest 0.01 ft. prior to pumping or bailing.
 4 -- The Total Nitrogen value is calculated by adding the Total Kjeldahl Nitrogen value and the Total Nitrite + Nitrate Nitrogen value.



Chapter 1. Compliance Schedule

1. Compliance Schedule

Nitrogen Mitigation and Analysis Plan

- 1.1 The Permittee shall prepare a Nitrogen Mitigation and Analysis Plan (Plan) to address elevated nitrogen levels detected in groundwater monitoring well GW004. The Plan shall be submitted within 90 days after permit issuance.

The Plan shall evaluate methods to reduce the amounts of nitrogen in the discharge and/or increase distribution of effluent to the groundwater. The Plan shall include, but not be limited to, analysis and selection of the following alternatives:

- a) Installation of additional treatment units to remove nitrogen in wastewater.
 - b) Installation of additional disposal area to reduce the nitrogen loading rate.
 - c) An evaluation of the groundwater monitoring well network to determine whether current wells are adequately placed and whether additional wells are necessary.
 - d) An analysis of the operation and maintenance of the system. This shall include, but not be limited to, application rates, seasonal loading and resting procedures, distribution effectiveness to maximize the area used and solids removal.
 - e) A schedule outlining completion dates for proposed activities.
- 1.2 The Permittee shall begin implementation of the Nitrogen Mitigation and Analysis Plan within 30 days after its submittal.
- 1.3 Beginning in 2015, by December 31 of each year, the Permittee shall submit an annual report to the MPCA documenting progress on nitrogen reductions as a result of the Nitrogen Mitigation and Analysis Plan implementation.
- 1.4 The Permittee shall attain compliance with the final Total Nitrite Plus Nitrate limit of 10 mg/L by one day prior to permit expiration.

Chapter 2. Ground Water Stations

1. Monitoring Wells

- 1.1 The Permittee shall install, maintain and abandon groundwater monitoring wells according to the Minnesota Water Well Construction Code, Minnesota Rules, ch. 4725. 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.
- 1.2 Each monitoring well shall be clearly numbered on the outside of the well with either indelible paint or an inscribed number.
- 1.3 The monitoring wells shall be sampled in accordance with "Minnesota Pollution Control Agency, Water Quality Division: Sampling Protocol for Ground Water Monitoring Wells, July 1997, Reviewed and re-approved September 2006." Copies of this publication are available on the MPCA website at <http://www.pca.state.mn.us>.
- 1.4 Grab samples must be collected at all ground water monitoring points (lysimeters or wells) after stabilization tests are conducted.
- 1.5 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.
- 1.6 Temperature, specific conductance and pH shall be reported as the final field measurements from well stabilization.

Chapter 2. Ground Water Stations

2. Requirements for Specific Stations

2.1 GW 001, GW 002, GW 003, GW 004, GW 005, GW 006: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

Chapter 3. Waste Stream Stations

1. Requirements for Specific Stations

1.1 WS 001, WS 002, WS 003, WS 006, WS 007, WS 008: Submit a monthly DMR by 21 days after the end of each calendar month following permit issuance.

2. Sampling Location

- 2.1 Samples and monitoring for Stations WS001 (Hidden River's influent station) and WS002 (Clearwater Harbor's influent station) shall be collected at the inlet baffle of the first septic tank in each series.
- 2.2 Samples and monitoring for Stations WS003 (Hidden River's septic tank) and WS006 (Clearwater Harbor's final septic tank) shall be collected at the respective maintenance covers.
- 2.3 Samples and monitoring for Stations WS007 (Clearwater Harbor's effluent) and WS008 (Hidden River's effluent) shall be collected at a point after the respective recirculating sand filters and before entering the respective drainfiled trenches.

Chapter 4. Domestic Wastewater -- Large Subsurface Treatment System (LSTS)

1. Unauthorized Discharge

1.1 There shall be no unauthorized discharge to the ground surface or surface water from these facilities.

2. Prohibitions

2.1 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.

3. Sanitary Sewer Extension Permit

3.1 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).

4. Operator Certification

- 4.1 The Permittee shall provide a Class C state certified operator who is in direct responsible charge of the operation, maintenance and testing functions required to ensure compliance with the terms and conditions of this permit. In addition, the certified operator must maintain a current Service Provider Certification. (Minnesota Statutes, section 115.72)
- 4.2 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 the certified operator's name, certificate number, service provider certification number, company name if appropriate, the period covered by the contract and provisions for renewal; the duties and responsibilities of the certified operator; the duties and responsibilities of the permittee; and provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date.

Chapter 4. Domestic Wastewater -- Large Subsurface Treatment System (LSTS)

4. Operator Certification

4.3 The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status.

5. Special Requirements

Special Condition - Update O & M Manual

5.1 The Permittee is required to have on-site and available an updated Operation and Maintenance manual. This manual must be available to MPCA staff upon request.

6. Facility Maintenance

6.1 The facility shall be adequately protected to prevent damage.

7. Collection System

7.1 The collection system shall be properly maintained to minimize inflow, infiltration, exfiltration, and obstructions. A record of all inspections and maintenance operations shall be kept by the Permittee for a minimum of three years.

8. Tank Maintenance

- 8.1 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.
- 8.2 The owner of a septic tank or tanks or the owner's agent must 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 must be removed through the maintenance hole.
- 8.3 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 at the facility that indicates the dates that the effluent screens are inspected, removed and cleaned.
- 8.4 Tanks that are not specifically covered under the Limits & 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.

9. Soil Treatment System Maintenance

- 9.1 The soil treatment system(s) shall be adequately fenced.
- 9.2 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.
- 9.3 Routine maintenance shall be conducted to discourage the presence of rodents and other burrowing animals and deer on the soil treatment system and to allow inspection of observation ports installed in the soil treatment system(s) inspection pipes.

Soil Treatment System Inspection

Chapter 4. Domestic Wastewater -- Large Subsurface Treatment System (LSTS)

9. Soil Treatment System Maintenance

9.4 Ponding depth inspections to determine the condition of each soil treatment system (trench, bed, at-grade, mound, or drip dispersal) /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 the identification of wet or saturated areas, depth of effluent ponding in the soil treatment observation ports, evidence of effluent at the surface, frozen components, and measurements in piezometers (if installed). Visual observations shall be recorded and inspection records shall be maintained by the owner for a minimum of three years following each inspection. The results of the inspection are not required to be submitted to the MPCA but shall be made available upon request by MPCA staff.

9.5 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 ground water mounding (observed from piezometers) and exceeding daily permitted flow rates as indicated by flow meters, event counters and running time clocks.

Reserve Soil Treatment System

9.6 The reserve area for the soil treatment system/drainfield must be properly protected to prevent the use of, and damage to, the area. The reserve area must be posted and identified for the public with at least one sign designating its future purpose and the boundaries must be visibly staked at all corners. In no case may this area be disturbed for any purpose, including vehicle traffic, storage, bike, hiking or ATV trails, playing fields, etc.

Chapter 5. Total Facility Requirements

1. General Requirements

General Requirements

- 1.1 No Discharge. There shall be no point source discharge to surface water from the permitted activity.
- 1.2 Incorporation by Reference. The following applicable federal and state laws are incorporated by reference in this permit, are applicable to the Permittee, and are enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. pts. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. Sec. 115 and 116.
- 1.3 Permittee Responsibility. The Permittee shall perform the actions or conduct the activity authorized by the permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the Agency. (Minn. R. 7001.0150, subp. 3, item E)
- 1.4 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 Code of Federal Regulations, Title 40, sections 400 to 460 and Minnesota Rules 7050, 7052, 7053 and any other applicable MPCA rules. (Minn. R. 7001.1090, subp.1, item A)
- 1.5 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, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. (Minn. R. 7050.0210 subp. 2)
- 1.6 Property Rights. This permit does not convey a property right or an exclusive privilege. (Minn. R. 7001.0150, subp. 3, item C)
- 1.7 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, item O)

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.8 The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what is authorized by Minnesota Statutes. (Minn. R. 7001.0150, subp.3, item D)
- 1.9 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, item A)
- 1.10 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, item B)
- 1.11 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.
- 1.12 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.
- 1.13 Inspection and Entry. When authorized by Minn. Stat. Sec. 115.04; 115B.17, subd. 4; and 116.091, and upon presentation of proper credentials, the agency, or an authorized employee or agent of the agency, shall be allowed by the Permittee 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 or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit. (Minn. R. 7001.0150, subp.3, item I)
- 1.14 Control Users. The Permittee shall regulate the users of its wastewater treatment facility so as 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.

Sampling

- 1.15 Representative Sampling. Samples and measurements required by this permit shall be conducted as specified in this permit and shall be representative of the discharge or monitored activity. (40 CFR 122.41 (j)(1))
- 1.16 Additional Sampling. If the Permittee monitors more frequently than required, the results and the frequency of monitoring shall be reported on the Discharge Monitoring Report (DMR) or another MPCA-approved form for that reporting period. (Minn. R. 7001.1090, subp. 1, item E)
- 1.17 Certified Laboratory. A laboratory certified by the Minnesota Department of Health and/or registered by the MPCA shall conduct analyses required by this permit. Analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine) do not need to be completed by a certified laboratory but shall comply with manufacturers specifications for equipment calibration and use. (Minn. Stat. Sec. 144.97 through 144.98 and Minn. R. 4740.2010 and 4740.2050 through 4740.2120) (Minn. R. 4740.2010 and 4740.2050 through 2120)
- 1.18 Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and Minn. R. 7041.3200.
- 1.19 Equipment Calibration: Flow meters, pumps, flumes, lift stations or other flow monitoring equipment used for purposes of determining compliance with permit shall be checked and/or calibrated for accuracy at least twice annually. (Minn. R. 7001.0150, subp. 2, items B and C)

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.20 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 (Minn. R. 7001.0150, subp. 2, item C):
- a. The exact place, date, and time of the sample or measurement;
 - b. The date of analysis;
 - c. The name of the person who performed the sample collection, measurement, analysis, or calculation; and
 - d. The analytical techniques, procedures and methods used; and
 - e. The results of the analysis.
- 1.21 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. The information shall be recorded in the specified areas on those forms and in the units specified. (Minn. R. 7001.1090, subp. 1, item D; Minn. R. 7001.0150, subp. 2, item B)

Required forms may include:

DMR Supplemental Form

Individual values for each sample and measurement must be recorded on the DMR Supplemental Form which, if required, will be provided by the MPCA. DMR Supplemental Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it must be approved by the MPCA. Note: Required summary information MUST also be recorded on the DMR. Summary information that is submitted ONLY on the DMR Supplemental Form does not comply with the reporting requirements.

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.22 Submitting Reports. Discharge Monitoring Reports (DMRs), DMR supplemental forms, and related attachments shall be submitted electronically via the MPCA Online Services Portal after authorization is approved. Authorization must be applied for and approved prior to submittal via the Online Services Portal.

DMRs and DMR Supplemental Forms shall be electronically submitted by the 21st day of the month following the monitoring period end or as otherwise specified in this permit. Electronic DMR submittal must be complete on or before 11:59 PM of the 21st day of the month following the end of the monitoring period or as otherwise specified in this permit. A DMR shall be submitted for each required station even if no discharge occurred during the monitoring period. (Minn. R. 7001.0150, subps. 2.B and 3.H)

If electronic submittal is not possible, the Permittee must apply for an exception to electronic submittal. Exceptions requests for extreme conditions (no computer on-site is not an extreme condition) must at a minimum contain the extreme reason for the exception, actions to be taken, and date the facility will submit eDMR. All exception requests, and paper DMRs, DMR supplemental forms, and related attachments must be submitted by the 21st day of the month following the monitoring period end to:

MPCA
Attn: Discharge Monitoring Reports
520 Lafayette Road North
St. Paul, Minnesota 55155-4194.

Other reports required by this permit shall be submitted on or before the due date specified in the permit to:

MPCA
Attn: WQ Submittals Center
520 Lafayette Road North
St. Paul, Minnesota 55155-4194.

- 1.23 Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or DMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or DMR. The amended report or DMR shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. If it is impossible to electronically amend the report or DMR, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. (Minn. R. 7001.0150 subp. 3, item G)
- 1.24 Required Signatures. All DMRs, forms, reports, and other documents submitted to the MPCA shall be signed by the Permittee or the duly authorized representative of the Permittee. Minn. R. 7001.0150, subp. 2, item D. The person or persons that sign the DMRs, forms, reports or other documents must certify that he or she understands and complies with the certification requirements of Minn. R. 7001.0070 and 7001.0540, including the penalties for submitting false information. Technical documents, such as design drawings and specifications and engineering studies required to be submitted as part of a permit application or by permit conditions, must be certified by a registered professional engineer. (Minn. R. 7001.0540)

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.25 Detection Level. The Permittee shall report monitoring results below the reporting limit (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 concentration shall be reported as "<0.1 mg/L." "Non-detected," "undetected," "below detection limit," and "zero" are unacceptable reporting results, and are permit reporting violations. (Minn. R. 7001.0150, subp. 2, item B)

Where sample values are less than the level of detection and the permit requires reporting of an average, the Permittee shall calculate the average as follows:

- a. If one or more values are greater than the level of detection, substitute zero for all nondetectable values to use in the average calculation.
 - b. If all values are below the level of detection, report the averages as "<" the corresponding level of detection.
 - c. Where one or more sample values are less than the level of detection, and the permit requires reporting of a mass, usually expressed as kg/day, the Permittee shall substitute zero for all nondetectable values. (Minn. R. 7001.0150, subp. 2, item B)
- 1.26 Records. The Permittee shall, when requested by the Agency, 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 activity covered by the permit. (Minn. R. 7001.0150, subp. 3, item H)
- 1.27 Confidential Information. Except for data determined to be confidential according to Minn. Stat. Sec. 116.075, subd. 2, all reports required by this permit shall be available for public inspection. Effluent data shall not be considered confidential. To request the Agency maintain data as confidential, the Permittee must follow Minn. R. 7000.1300.

Noncompliance and Enforcement

- 1.28 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. Sec. 115.071 and 116.072, including monetary penalties, imprisonment, or both. (Minn. R. 7001.1090, subp. 1, item B)
- 1.29 Criminal Activity. The Permittee may not knowingly make a false statement, representation, or certification in a record or other document submitted to the Agency. A person who falsifies a report or document submitted to the Agency, or tampers with, or knowingly renders inaccurate a monitoring device or method required to be maintained under this permit is subject to criminal and civil penalties provided by federal and state law. (Minn. R. 7001.0150, subp.3, item G., 7001.1090, subps. 1, items G and H and Minn. Stat. Sec. 609.671)
- 1.30 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))

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.31 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. If the permittee discovers that noncompliance with a condition of the permit has occurred which 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 5 days of the discovery. The written description shall include items a. through e., as listed below. If the Permittee discovers other non-compliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the non-compliance shall be reported during the next reporting period to the MPCA with its Discharge Monitoring Report (DMR). If no DMR is required within 30 days, the Permittee shall submit a written report within 30 days of the discovery of the noncompliance. This description shall include the following information:
- 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; and
 - e. steps taken to reduce any adverse impact resulting from the event. (Minn. R. 7001.0150, subp. 3k)
- 1.32 Upset Defense. In the event of temporary noncompliance by the Permittee with an applicable effluent limitation 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 Agency as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:
- 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, item I; and
 - f. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3, item J.

Release

- 1.33 Unauthorized Releases of Wastewater Prohibited. Except for discharges from outfalls specifically authorized by this permit, overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, are prohibited. However, 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. (40 CFR 122.41 and Minn. Stat. Sec 115.061)

Chapter 5. Total Facility Requirements

1. General Requirements

1.34 Discovery of a release. Upon discovery of a release, the Permittee shall:

- a. Take all reasonable steps to immediately end the release.
- b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area).
- c. 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 released materials or substances cannot be immediately or completely recovered, 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.

1.35 Sampling of a release. Upon discovery of a release, the Permittee shall:

- a. Collect representative samples of the release. The Permittee shall sample the release for 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, Fecal Coliform Bacteria samples shall be collected where it is determined by the Permittee that the release contains or may contain sewage. If the release cannot be immediately stopped, the Permittee shall consult with MPCA regarding additional sampling requirements. Samples shall be collected at least, but not limited to, two times per week for as long as the release continues.
- b. Submit the sampling results on the Release Sampling Form (<http://www.pca.state.mn.us/index.php/view-document.html?gid=18867>). The Release Sampling Form shall be submitted to the MPCA with the next DMR or within 30 days whichever is sooner.

Bypass

1.36 Anticipated bypass. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The permittee shall submit prior notice, if possible at least ten days before the date of the bypass to the MPCA (40 CFR 122.41(m)(2) and 122.41(m)(3) and Minn. R. Ch. 7001.1090, subp. 1, J).

The notice of the need for an anticipated bypass shall include the following information:

- a. The proposed date and estimated duration of the bypass;
- b. The alternatives to bypassing; and
- c. A proposal for effluent sampling during the bypass. Any bypass wastewater must enter waters of the state from outfalls specifically authorized by this permit. Therefore, samples shall be collected 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.

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.37 All other bypasses are prohibited. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. Ch. 7001.1090 subp. 1, K and 122.41(m)(4)(i) are met.

In the event of an unanticipated bypass, the permittee shall:

- a. Take all reasonable steps to immediately end the bypass.
- b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon commencement of the bypass. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area). (Minn. Stat. Sec 115.061)
- 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.
- d. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. Samples shall be collected 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.

Operation and Maintenance

- 1.38 The Permittee shall at all times properly operate and maintain the facilities 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, item F.
- 1.39 In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail its 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 the wastewater treatment facility has been restored or until an alternative method of treatment is provided. (Minn. R. 7001.1090, subp. 1, item C)
- 1.40 Solids Management. The Permittee shall properly store, transport, and dispose of biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or ground waters of the state. Solids should be disposed of in accordance with local, state and federal requirements. (40 CFR 503 and Minn. R. 7041 and applicable federal and state solid waste rules)
- 1.41 Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent degradation of water quality, except where emergency maintenance is required to prevent a condition that would be detrimental to water quality or human health. (Minn. R. 7001.0150. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)
- 1.42 Control Tests. In-plant control tests shall be conducted at a frequency adequate to ensure compliance with the conditions of this permit. (Minn. R. 7001.0150. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)

Changes to the Facility or Permit

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.43 Permit Modifications. Except as provided under Minnesota Statutes, section 115.07, subdivisions 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 agency has issued a written permit for the facility or activity. (Minn. R. 7001.0030)

Permittees that propose to make a change to the facility or discharge that requires a permit modification must follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee must contact the MPCA prior to any action. It is recommended that the application for permit modification be submitted to the MPCA at least 180 days prior to the planned change.

- 1.44 No person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted except as provided under Minnesota Statutes, section 115.07, subdivisions 1 and 3, nor shall a person commence an activity for which a permit is required by statute or rule until the agency has issued a written permit for the facility or activity.
- 1.45 Plans, specifications and MPCA approval are not necessary 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, a broken pipe, lift station pump, aerator, or blower can be replaced with the same design-sized equipment without MPCA approval.

If the proposed construction is not expressly authorized by this permit, it may require a permit modification. If the construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until a negative declaration is issued and all approvals are received or implemented.

- 1.46 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, item M)
- 1.47 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.

The Permittee shall request approval for an increased or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increased or new use.

This written request shall include at least the following information for the proposed additive:

- a. The process for which the additive will be used;
- b. Material Safety Data Sheet (MSDS) 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 (either Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50 acute study for rainbow trout, bluegill or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean;
- c. A complete product use and instruction label;
- d. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the MSDS 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); and
- e. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use. (Minn. R. 7001.0170)

Chapter 5. Total Facility Requirements

1. General Requirements

- 1.48 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 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.

- 1.49 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 this permit pursuant to Minn. R. 7001.0180.
- 1.50 TMDL Impacts. Facilities that discharge to an impaired surface water, watershed or drainage basin may be required to comply with additional permits or permit requirements, including additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR 122.44.1.2.i., necessary to ensure consistency with the assumptions and requirements of any applicable US EPA approved wasteload allocations resulting from Total Maximum Daily Load (TMDL) studies.
- 1.51 Permit Transfer. The permit is not transferable to any person without the express written approval of the Agency after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit. (Minn. R., 7001.0150, subp. 3, item N)
- 1.52 Facility Closure. 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 MPCA may require the Permittee to provide to the MPCA a facility Closure Plan for approval.

Facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or ground water, may require a permit modification or reissuance.

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 financial assurance is required, the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance, shall be approved by the MPCA. (Minn. Stat. Sec. 116.07, subd. 4)

Chapter 5. Total Facility Requirements

1. General Requirements

1.53 Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for reissuance at least 180 days before permit expiration. 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 (Minn. R. 7001.0040 and 7001.0160):

- 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;
- c. 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.

Submittals and Actions Checklist

Clearwater Harbor Wastewater Treatment Facility

This checklist is intended to assist you in tracking the reporting requirements of your permit. However, it is only an aid. PLEASE CONSULT YOUR PERMIT FOR THE EXACT REQUIREMENTS.

Please note: This checklist only details submittal requirements for the next five years. DMRs, Annual Reports, and many other submittals are required even after the expiration date of this permit, and continue to be due until the permit is either reissued or terminated.

Submit eDMRs:

Submit eDMRs via the MPCA Online Services Portal at: <https://netweb.pca.state.mn.us/private/>

Submit other WQ reports to:

Attention: Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Rd N
St. Paul, MN 55155

MPCA Staff Contacts:

For eDMR-related questions:
Jennifer Satnik at (651)757-2692
For other questions:
Justin Barrick at (218)316-3858

2014

- Submit DMR (due before Aug 22)
- Submit DMR (due before Sep 22)
- Submit DMR (due before Oct 22)
- Submit DMR (due before Nov 22)
- Submit a Nitrogen Mitigation and Analysis Plan (due before Dec 2) (Permit Req't. 1.1.1)
- Submit DMR (due before Dec 22)

2015

- Submit DMR (due before Jan 22)
- Submit DMR (due before Feb 22)
- Submit DMR (due before Mar 22)
- Submit DMR (due before Apr 22)
- Submit DMR (due before May 22)
- Submit DMR (due before Jun 22)
- Submit DMR (due before Jul 22)
- Submit DMR (due before Aug 22)
- Submit DMR (due before Sep 22)
- Submit DMR (due before Oct 22)
- Submit DMR (due before Nov 22)
- Submit DMR (due before Dec 22)
- Submit a progress report (due before Dec 31) (Permit Req't. 1.1.3)

2016

- Submit DMR (due before Jan 22)
- Submit DMR (due before Feb 22)
- Submit DMR (due before Mar 22)
- Submit DMR (due before Apr 22)
- Submit DMR (due before May 22)
- Submit DMR (due before Jun 22)
- Submit DMR (due before Jul 22)
- Submit DMR (due before Aug 22)
- Submit DMR (due before Sep 22)
- Submit DMR (due before Oct 22)
- Submit DMR (due before Nov 22)
- Submit DMR (due before Dec 22)
- Submit a progress report (due before Dec 31) (Permit Req't. 1.1.3)

2017

- Submit DMR (due before Jan 22)
- Submit DMR (due before Feb 22)
- Submit DMR (due before Mar 22)
- Submit DMR (due before Apr 22)
- Submit DMR (due before May 22)
- Submit DMR (due before Jun 22)
- Submit DMR (due before Jul 22)

Submittals and Actions Checklist Clearwater Harbor Wastewater Treatment Facility

This checklist is intended to assist you in tracking the reporting requirements of your permit. However, it is only an aid. PLEASE CONSULT YOUR PERMIT FOR THE EXACT REQUIREMENTS.

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For other questions:
Justin Barrick at (218)316-3858

2017

- Submit DMR (due before Aug 22)
- Submit DMR (due before Sep 22)
- Submit DMR (due before Oct 22)
- Submit DMR (due before Nov 22)
- Submit DMR (due before Dec 22)
- Submit a progress report (due before Dec 31) (Permit Req't. 1.1.3)

2018

- Submit DMR (due before Jan 22)
- Submit DMR (due before Feb 22)
- Submit DMR (due before Mar 22)
- Submit DMR (due before Apr 22)
- Submit DMR (due before May 22)
- Submit DMR (due before Jun 22)
- Submit DMR (due before Jul 22)
- Submit DMR (due before Aug 22)
- Submit DMR (due before Sep 22)
- Submit DMR (due before Oct 22)
- Submit DMR (due before Nov 22)
- Submit an application for permit reissuance (due before Dec 2) (Permit Req't. 5.1.53)
- Submit DMR (due before Dec 22)
- Submit a progress report (due before Dec 31) (Permit Req't. 1.1.3)

2019

- Submit DMR (due before Jan 22)
- Submit DMR (due before Feb 22)
- Submit DMR (due before Mar 22)
- Submit DMR (due before Apr 22)
- Submit DMR (due before May 22)
- Attain compliance with final effluent limits (due before May 30) (Permit Req't. 1.1.4)

Other Submittals

- The Permittee shall begin implementation of the Nitrogen Mitigation and Analysis Plan within 30 days after its submittal. (Permit Req't. 1.1.2)