MINNESOTA POLLUTION CONTROL AGENCY

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National Pollutant Discharge Elimination System/State Disposal System

MN0071013

Permittee:	Poly Met Mining, Inc.
Facility name:	NorthMet Project
Receiving water:	Unnamed Wetlands in the headwater area of Unnamed Creek, Unnamed Wetlands in the headwater area of Trimble Creek, and Second Creek
City or Township:	Hoyt Lakes, Babbitt **County:** St. Louis
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 and to discharge from this facility to the receiving water 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 01/01/2019. This permit expires at midnight on the expiration date identified above.

Signature:

This document has been electronically signed.

for the Minnesota Pollution Control Agency

Jeff Udd, P.E.
Manager
Mining Sector
Industrial Division

Submit eDMRs
Submit via the MPCA e-Services at https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true

Submit other WQ reports to:
Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Questions on this permit?
For eDMR and other permit reporting issues, contact:
TBD

For specific permit requirements, please refer to:
TBD

Wastewater Permit Program general questions, contact:
MPCA, 651-282-6143 or 1-800-657-3938.

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1. Permitted facility description

Facility Overview

Poly Met Mining, Inc. (PolyMet) proposes to develop a copper-nickel-platinum-group elements (PGE) mine and associated processing facilities. The proposed mine and processing facilities, know as the NorthMet Project (Project), are described in detail in the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit Application dated July 2016 and updated in October 2017 (collectively, permit application). The Project is located south of the city of Babbitt and north of the city of Hoyt Lakes in St. Louis County, Minnesota, as shown on Figure 2.1.

The Project consists of the Mine Site, the Plant Site, and the Transportation and Utility Corridors that connect them. The Mine Site is a relatively undisturbed site that will be developed into an open pit mine and is located approximately six miles south of the city of Babbitt. The Plant Site is located at the former LTV Steel Mining Company/Cliffs Erie taconite processing facility located approximately six miles north of the city of Hoyt Lakes and will include refurbished and new ore processing and waste disposal facilities. The Plant Site includes the Colby Lake Corridor, which contains an existing pipeline that will be refurbished as necessary and will supply water from Colby Lake to the Plant Site. The Mine Site and the Plant Site are connected by approximately 7- to 8-mile long Transportation and Utility Corridors, which will include new and upgraded infrastructure to link activities at the Mine Site and Plant Site. The Mine Site, the Plant Site and the Transportation and Utility Corridors are shown in Figure 2.2.

The Project configuration and design may change over time. Before any such changes are implemented, any necessary regulatory approvals will need to be obtained. The following facility description provides background on the Project as currently planned, with the information based primarily on the permit application.

Mine Site

The Mine Site is a relatively undisturbed site that will be developed into an open pit mine. Development of the Mine Site for the Project will include construction of new facilities, including mine pits, ore handling facilities, waste rock stockpiles, an overburden storage area, mine water management systems, an Equalization Basin Area, and supporting infrastructure.

The Mine Site will include the following Project features:

- three mine pits (the East Pit, West Pit, and Central Pit)
- ore handling facilities, including an Ore Surge Pile (OSP) and a Rail Transfer Hopper (RTH)
- Category 1, 2/3, and 4 Waste Rock Stockpiles and the OSP with engineered systems such as liners, covers, and a groundwater containment system, to manage precipitation that will run off of or percolate through the stored waste rock
- an Overburden Storage and Laydown Area (OSLA) to provide space to sort and store unsaturated mineral overburden and peat used for construction and reclamation
- mine water collection systems and an Equalization Basin Area to collect mine water from the mine pits, the stockpiles, the ore handling facilities, OSLA, construction areas, and the driving surface of haul roads
- a Central Pumping Station, Construction Mine Water Pumping Station, and Mine to Plant Pipelines (MPP) to transport mine water from the Mine Site to the Plant Site

- stormwater management systems

The location of the Mine Site and Mine Site features is shown on Figures 2.3 and 2.4.

Mine Pits and Mine Pit Dewatering

Mine Pits

The Project will involve mining from three open pits, the East Pit, the West Pit and the Central Pit. Mining will begin in the East Pit in Mine Year 1 followed by mining in the West Pit. Mining from the West Pit is anticipated throughout the life of the mine. Mining from the East Pit will cease before the end of the life the mine, and thereafter backfilling of the pit with waste rock from the temporary Category 2/3 and Category 4 waste rock stockpiles will begin. Mining from the Central Pit will begin once the Category 4 waste rock stockpile is backfilled into the East Pit. Once backfilling begins, waste rock from the West and Central Pits will be used to backfill the East Pit, as well as the Central Pit, once mining ceases in each pit.

Mine Pit Dewatering

Each of the mine pits will require mine pit dewatering to remove groundwater and runoff from areas within the pits. This water will be directed to sumps within the pits where it will be collected and pumped to the equalization basins for further conveyance to the Wastewater Treatment System (WWTS) at the Plant Site.

Waste Rock Stockpiles

Temporary Category 2/3 Waste Rock and Category 4 Waste Rock Stockpiles and Ore Surge Pile

The Category 2/3 Waste Rock Stockpile and the Category 4 Waste Rock Stockpile will temporarily store higher sulfur waste rock that may generate acidic leachate until the waste rock can be backfilled into the East and Central Mine Pits. The Ore Surge Pile will be used to temporarily store ore, with ore moving in and out as needed to meet mine and plant conditions. Each of these temporary features will include an engineered liner system consisting of a compacted foundation, an underdrain system (if needed), a geomembrane liner over a compacted soil liner and an overliner drainage layer. Drainage from each stockpile will be collected in a sump and pond system and will be conveyed to the equalization basins for further conveyance to the WWTS at the Plant Site for further treatment.

Permanent Category 1 Waste Rock Stockpile

The Category 1 Waste Rock Stockpile will be the only permanent waste rock stockpile on site. Category 1 waste rock is of lower sulfur content and is not expected to generate acidic leachate but may leach heavy metals. Drainage from the Category 1 Waste Rock Stockpile will be collected by a groundwater containment system that consists of a low permeability barrier with a collection system on the inward side that will be operated to maintain an inward hydraulic gradient. The drainage collected by the

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groundwater containment system will be conveyed to the equalization basins for further conveyance to the WWTS at the Plant Site for treatment.

Overburden Storage and Laydown Area (OSLA)
The OSLA is a temporary storage area for unsaturated overburden and peat that will be used in construction and reclamation. The OSLA will be graded and compacted to direct runoff to a collection pond from where it will be pumped to the Construction Mine Water Basin for further conveyance to the Flotation Tailings Basin (FTB) at the Plant Site via the MPP or, during East and Central Pit filling, for conveyance to these pits.

Mine Water Collection Systems
Mine water will include water that has contacted surfaces disturbed by mining activities including the aforementioned mine pit dewatering and stockpile drainage as well as runoff contacting ore, waste rock and Mine Site haul road surfaces. Mine water will be intercepted throughout the Mine Site by ditches, dikes, stockpile liners, and the stockpile groundwater containment system and routed to the Equalization Basin Area where it will be kept segregated in ponds by waste strength as described in the Plant Site section below. There will be no direct discharge of mine water or other process wastewater to surface waters from the Mine Site.

Internal monitoring points, groundwater monitoring wells and piezometers, and surface water monitoring will be located at or near the Mine Site and are described in the Monitoring Summary section of this permit. Features of the Mine Site are further described in the Fact Sheet.

Plant Site
The Plant Site is located approximately 6-7 miles west of the Mine Site. It is a developed site which includes a former taconite processing facility and tailings basin previously operated by LTV Steel Mining Company (LTVSMC). Redevelopment of the Plant Site for the Project will include refurbishment of former LTVSMC processing facilities and construction of new facilities. Plant Site features will include:

- a Beneficiation Plant
- a Hydrometallurgical Plant
- a Flotation Tailings Basin (FTB) including Seepage Capture Systems
- a Hydrometallurgical Residue Facility (HRF)
- a Waste Water Treatment System (WWTS)
- a Sewage Treatment System
- other ancillary facilities (e.g., Colby Lake water pipeline).

The location of the Plant Site and Plant Site features is shown on Figures 2.5 and 2.6.

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Beneficiation Plant and Flotation Tailings Basin

Beneficiation Plant

The Beneficiation Plant will process ore to produce nickel and copper concentrates. Ore will be crushed at the Coarse Crusher Building, ground in the semi-autogenous grinding mill and ball mill at the Concentrator Building, and then sent to the Flotation Building. In flotation, the minerals containing base and precious metals will be separated from the tailings using a combination of flotation reagents.

At current operating design the Beneficiation Plant will process approximately 32,000 tons of ore per day, and produce approximately 660 tons per day of copper and nickel concentrates and approximately 31,340 tons per day of Flotation Tailings, although these rates may vary depending on operating factors, economic conditions or other factors. Copper concentrates will be dewatered and shipped to customers via rail. Nickel concentrates will be dewatered and shipped directly to customers via rail until the Hydrometallurgical Plant is built to process them on-site. Flotation Tailings will be slurried to the FTB.

The Beneficiation Plant will produce Flotation Tailings throughout the planned 20 years of ore processing. Flotation Tailings will be pumped as a slurry to the FTB, which will be constructed atop Cells 1E and 2E of the former LTVSMC tailings basin. Water from the Tailings Basin will be recycled back to the Beneficiation Plant and will not be directly discharged to surface waters during operations.

The Beneficiation Plant will require an annual average of approximately 13,800 gpm of water for processing. Nearly all this water will be piped with the tailings to the FTB. Water for Beneficiation Plant processes will come primarily from the FTB Pond. Other minor sources of water will include water in the raw ore, reagents, and gland seals of slurry pumps. Make-up water, as needed, will be drawn from the Plant Reservoir which will be supplied with raw water pumped from Colby Lake at an average rate of approximately 760 gpm under terms of a water appropriation permit from the Minnesota Department of Natural Resources (MDNR). Water will be conveyed from Colby Lake via an existing pipeline, located within the Colby Lake Corridor, previously used by LTVSMC in its taconite operations. PolyMet will refurbish the existing pipeline and pumphouse as necessary for its use.

Flotation Tailings Basin

The FTB is designed to contain Flotation Tailings generated over the planned 20 years of operation. The FTB will be constructed atop the existing LTVSMC tailings basin. The FTB will be constructed in stages, gradually increasing in elevation and size. Initially, flotation tailings will be placed in existing Cell 2E. Eventually, Cell 2E will merge with Cell 1E and flotation tailings will be placed in combined Cell 1E/2E. The FTB perimeter dams will be raised in an upstream construction method utilizing LTVSMC coarse tailings. A bentonite amended layer will be placed on exterior sides of the FTB dams to limit oxidation of the tailings. The FTB dams will be constructed and operated in accordance with Minnesota dam safety regulations administered by the MDNR.

The FTB Pond will receive water from the following sources during operations: process water/tailings slurry from the Beneficiation Plant, captured seepage from the FTB seepage capture systems, treated mine water, filter backwash and clean-in-place wastes from the WWTS, construction mine water/OSLA

runoff from the Mine Site, treated effluent from the Sewage Treatment System, and precipitation and runoff from within the FTB dams and tributary to the FTB Pond.

The FTB is designed and will be operated to prevent overflow of the system – there will be no direct discharge from the FTB Pond to any surface waters. Pond water levels will be managed to maintain adequate freeboard by adjusting the relative amount of collected tailings basin seepage routed to the Pond and to the WWTS. Freeboard requirements and other terms relating to the operation of the FTB are established by the MDNR dam safety permit.

FTB Seepage Capture Systems

Historically, seepage from the LTVSMC tailings basin has occurred from water infiltrating through the tailings basin and migrating through the base or external dam faces. As part of the Project, PolyMet will construct seepage capture systems to collect seepage from the FTB. The FTB Seepage Containment System and the FTB South Seepage Management System (collectively known as the FTB seepage capture systems) will collect water seeping from the combined former LTVSMC basin and the FTB (collectively, the Tailings Basin) via surface or shallow groundwater flow.

The FTB Seepage Containment System will surround the western and northern sides and extend to a portion of the eastern side of the Tailings Basin. It will consist of a cutoff wall installed to the top of the bedrock, with a collection trench and drain pipe installed on the upgradient side (Tailings Basin side) of the cutoff wall. The FTB Seepage Containment System will collect water seeping from the Tailings Basin via surface and shallow groundwater flow, as well as runoff from the exteriors of the dams on the northern, northwestern, western, and eastern sides of the Tailings Basin, and from the small watershed area between the toes of the dams and the FTB Seepage Containment System.

The FTB South Seepage Management System, which currently operates as the Cliffs Erie SD026 pumpback system, consists of a berm, trench, and pumpback system and collects seepage on the southern side of the FTB. During Project operations, PolyMet will upgrade the existing system to enhance the degree of seepage collection as necessary.

Seepage from both the FTB Seepage Containment System and the FTB South Seepage Management System will be routed to the WWTS for treatment prior to discharge to the receiving waters or returned to the FTB Pond for reuse. The amount of seepage to be treated at the WWTS and discharged will depend on operational factors, precipitation, allowable discharge requirements of 40 CFR 440, and requirements of the MDNR water appropriation permit.

Wastewater Treatment System (WWTS)

The WWTS will be located at the Plant Site and will house the process equipment for two separate treatment trains known as the mine water treatment trains and the tailings basin seepage treatment train. The primary components of the WWTS for the Project will include the Equalization Basin Area

located at the Mine Site, the Mine to Plant Pipelines (MPP), and the WWTS building and associated Pretreatment Basin.

The WWTS will treat mine water and tailings basin seepage. Mine water flows will be segregated based on projected water quality and treated in two mine water treatment trains. The mine water chemical precipitation train will treat high-concentration mine water and also treat WWTS membrane treatment concentrate. The mine water filtration train will treat low-concentration mine water using membrane separation. Separately, the WWTS will also treat tailings basin seepage using a combination of membrane separation treatment technologies (such as reverse osmosis (RO) and/or nanofiltration).

Equalization Basin Area

In the Equalization Basin Area located at the Mine Site, mine water will be managed based on the projected water quality. Construction mine water and OSLA runoff will be routed to the Construction Mine Water Basin. Mine water from low-volume sources (e.g., temporary waste rock stockpiles) that are expected to have relatively high concentrations of dissolved constituents will be routed to the High Concentration Equalization (HCEQ) Basin. Mine water from high-volume sources, (e.g., mine pits, haul roads and RTH area) that are expected to have relatively low concentrations of dissolved constituents will be routed to the Low Concentration Equalization (LCEQ) Basins.

Mine to Plant Pipelines

Three pipelines (collectively referred to as the MPP) will convey water between the Mine Site and the Plant Site. The Construction Mine Water Pipeline will transport construction mine water and runoff from the OSLA Pond to the FTB. Once pit backfilling begins, runoff from the OSLA pond will be routed to the East and Central Pits, and concurrently water from the WWTS will be conveyed through the Construction Mine Water Pipeline to the East and Central Pits to aid in pit flooding. The Low Concentration Mine Water Pipeline will transport mine water from the LCEQ Basins to the mine water filtration treatment train at the WWTS. The High Concentration Mine Water Pipeline will transport mine water from the HCEQ Basin to the mine water chemical precipitation treatment train at the WWTS.

Mine Water Chemical Precipitation Train

The mine water chemical precipitation train is designed to treat the low-volume flows from the sources with high concentrations of dissolved constituents. Secondary membrane concentrate (membrane reject water) from the tailings basin seepage treatment train and the mine water treatment trains will also be routed to the chemical precipitation train along with greensand filter backwash solids. Treated water from the mine water chemical precipitation train will be routed to the FTB; it will not be directly discharged to surface waters. The mine water chemical precipitation treatment train will consist of headworks, chemical precipitation, and associated solids handling works and is further described in Volume 3 of the October 2017 permit application.

Mine Water Filtration Train

The mine water filtration train is designed to treat mine water with relatively low concentrations of sulfate and metals and high flow rates, compared to the influent to the chemical precipitation train. Treated water from the mine water filtration will be routed to the FTB; it will not be directly discharged to surface waters. The mine water membrane filtration treatment train will consist of headworks, greensand filtration, primary membrane separation, and secondary membrane separation and is further described in Volume 3 of the October 2017 permit application.

Tailings Basin Seepage Treatment Train

The influent to the tailings basin seepage treatment train will consist primarily of tailings basin seepage collected by the FTB seepage capture systems. The tailings basin seepage treatment train will consist of a pre-treatment basin, greensand filtration, primary membrane separation (such as RO), secondary membrane separation, and permeate stabilization prior to discharge. The tailings basin seepage treatment train is further described in Volume 3 of the October 2017 permit application.

Wastewater Treatment Solids/Byproducts

The mine water treatment trains will produce byproduct streams as a result of filter and membrane cleaning. These streams will be the clean-in-place membrane waste and the greensand filter backwash and will be routed to the FTB. Excess sludge from high-density sludge precipitation, gypsum precipitation, and calcite precipitation will be dewatered in a filter press. Dewatered sludge will be disposed of at the HRF or disposed at a permitted solid waste facility. Filtrate will be routed to the chemical precipitation train for treatment.

The byproducts from the tailings basin seepage treatment train will include waste from filter and membrane cleaning and concentrate from the secondary membrane separation process. Waste from the filter and membrane cleaning will be routed to the FTB pond. Secondary membrane concentrate will be routed to the mine water chemical precipitation treatment train for treatment.

Wastewater Treatment System Discharge

The WWTS discharge from the tailings basin seepage treatment train will be piped to maintain flows in Trimble Creek, Second Creek, and Unnamed Creek. Some seepage will be recycled directly to the FTB Pond for reuse. The fraction of seepage to be treated at the WWTS and discharged will depend on operational factors and precipitation. Effluent from mine water treatment trains (treated mine water) will be routed to the FTB Pond.

Treated tailings basin seepage will be routed to the Treated Water Storage Tank (SD001), where effluent water quality will be monitored. From there the effluent will be pumped to the individual surface water

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discharge outfalls located in the headwaters of each of the receiving surface waters. Outfalls SD002 and SD003 discharge to headwater wetlands of Unnamed Creek, Outfalls SD004 through SD010 are located in headwater wetlands of Trimble Creek, and SD011 is located in the headwater segment of Second Creek. The WWTS discharge will be distributed to these tributaries in proportion to the flow required to minimize hydrologic or ecologic impacts resulting from the reduction in available source water to the streams from installation of the FTB seepage capture systems. The flow rate to each outfall will be monitored in the distribution box where the treated effluent from SD001 is divided to the individual outfalls. The discharge locations are shown in Figure 2.8.

The wetland headwaters to Unnamed and Trimble Creeks are Class 2D, 3D, 4C, 5, and 6 waters and the headwater segment of Second Creek is a Class 2B, 3C, 4A, 4B, 5, and 6 water. Approximate discharge rates to each of the individual outfalls are shown in Table 2.1.

Table 2.1 Proposed Discharge Rates

Station ID	Discharge Flow Rate Average (MGD)[3]		Discharge Flow Rate Maximum (MGD)[3]		Discharge Frequency	Receiving Waters
	Mine Year 1[1]	Mine Year 10[2]	Mine Year 1[1]	Mine Year 10[2]		
SD002	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Unnamed Creek
SD003	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Unnamed Creek
SD004	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD005	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD006	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD007	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD008	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD009	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD010	0.24	0.39	0.29	0.57	Continuous	Wetlands in the headwater area of Trimble Creek
SD011	0.27	0.40	0.31	0.59	Continuous	Headwater segment of Second Creek

(1) Mine Year 1 will be the first year of discharge from the WWTS, and for the first 15 years of the Project, is expected to be the year of minimal discharge and loading from the WWTS.
(2) Mine Year 10 is expected to be the year of maximum discharge and maximum loading from the WWTS.
(3) MGD = million gallons per day

Hydrometallurgical Plant/Hydrometallurgical Residue Facility

Hydrometallurgical Plant

The Hydrometallurgical Plant will process nickel concentrates from the Beneficiation Plant, extracting a copper concentrate, a mixed nickel-cobalt (Ni/Co) hydroxide, and a gold and platinum-

group elements (Au/PGE) precipitate. The Hydrometallurgical Plant may not be built for several years after mining starts. Before the Hydrometallurgical Plant is built, the company will ship the nickel concentrates from the Beneficiation Plant directly to customers. The timing for construction of the Hydrometallurgical Plant will depend on customer requirements and overall Project economics.

The hydrometallurgical process will involve high pressure and temperature autoclave leaching followed by several solution purification steps. Inputs will include the nickel concentrates from the Beneficiation Plant, water from the HRF Pond and the Plant Reservoir, various process consumables, and chemical additives. Waste residues from the hydrometallurgical process will be pumped as a slurry for final disposal to the HRF.

The Hydrometallurgical Plant and HRF will operate as a closed-loop system with no discharge to groundwater or surface waters or to the FTB/WWTS system. Water for Hydrometallurgical Plant processes will include recycled HRF water from the HRF Pond and make-up water from Colby Lake via the Plant Reservoir.

If all nickel concentrate streams from the Beneficiation Plant are processed at the Hydrometallurgical Plant, annual production will total about 113,000 tons of copper concentrate, 18,000 tons of mixed nickel-cobalt (Ni/Co) hydroxide, and 500 tons of gold and platinum-group elements (Au/PGE) precipitate. This will result in generation of approximately 313,000 tons of residue per year to be generated for disposal in the HRF. This will decrease if some flotation concentrates are shipped directly to customers.

Hydrometallurgical Residue Facility (HRF)

The HRF will be designed to permanently store residue from the hydrometallurgical process generated over the life of the Project and may also receive wastewater treatment solids from the WWTS. The HRF will be constructed at the former LTVSMC Emergency Basin (Emergency Basin) near the southwestern corner of the existing tailings basin.

The HRF will function as a large-scale sedimentation basin. Residue will be pumped as slurry to the HRF, where it will settle out. Residue slurry from the Hydrometallurgical Plant will be pumped to the HRF through a pipe with multiple discharge points into the HRF. A pond will be maintained within the HRF such that the solid fraction of the slurry (the Residue) settles out, while the majority of the liquid fraction is recovered by the return water system and pumped back to the Hydrometallurgical Plant for reuse. The water level and dam heights in the HRF will be managed as needed to facilitate Residue deposition at the desired locations within the HRF and to achieve the desired water clarity for process water at the Hydrometallurgical Plant in accordance with Minnesota dam safety regulations administered by the MDNR.

The HRF is designed as a closed system: no water from the HRF will be released to the environment through overflow or outlet structures. The HRF is designed with a double liner with a Leakage Collection System between the two liners to prevent leakage to groundwater. Any leakage collected

in the leakage collection system will be routed back to the HRF pond. The HRF Leakage Collection System is further described in Volume 6 of the October 2017 permit application.

Plant Site Sewage Treatment System

Sewage generated from various buildings at the Plant Site, sewage generated at the Mine Site, and filter backwash from the Plant Site Potable Water Treatment Plant will be collected and routed to a Plant Site Sewage Treatment System (STS). The STS will consist of a stabilization pond system. The STS will be designed for an initial daily flow of approximately 8,500 gallons per day (gpd) and average wet weather flow of approximately 21,500 gpd with expansion up to an average daily flow of approximately 13,750 gpd and average wet weather flow of approximately 26,750 gpd.

Existing piping will be used to collect sewage from existing facilities at the Plant Site and will be refurbished to minimize infiltration and inflow to the collection system. New piping and associated infrastructure will also be added to connect new Plant Site facilities to the collection system and the stabilization ponds. Sewage at the Mine Site will be collected in portable facilities and trucked to the Plant Site STS.

The Proposed stabilization ponds will consist of two lined primary ponds and one lined secondary pond with operating depths of approximately four feet. The secondary pond will discharge to the Flotation Tailings Basin (FTB) Pond via a pump station. The controlled discharge will occur in the spring and fall of each year. Each controlled discharge will typically last 10 to 14 days, depending on weather conditions.

Transportation and Utility Corridors

The Transportation and Utility Corridors provide connections between the Mine Site and the Plant Site for ore transport, vehicle traffic, mine water conveyance, and power transmission. These corridors include the existing Dunka Road and utility corridor and existing railroad corridor. A new segment of railroad corridor also will be utilized to construct the Railroad Connection Track for the Project. Runoff from the Transportation and Utility Corridors will be managed under the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater General Permit (MNR100001) and the NPDES/SDS Industrial Stormwater General Permit (MNR050000) and is not covered under this NPDES/SDS permit.

Stormwater

The discharge and management of construction stormwater and industrial stormwater for the Project will be regulated under the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater General Permit (MNR100001) and the NPDES/SDS Industrial Stormwater General Permit (MNR050000) respectively. This NPDES/SDS permit for the

Project does not include provisions regulating the direct discharge of stormwater to waters of the state.

Antidegradation

Changes to the facility may result in an increase in pollutant loading to surface waters or other causes of degradation to surface waters. If a change to the facility will result in a net increase in pollutant loading or other causes of degradation that exceed the maximum loading authorized through conditions specified in the existing permit, the changes to the facility are subject to antidegradation requirements found in Minn. R. 7050.0250 to 7050.0335.

This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

Any point source discharger of sewage, industrial, or other wastes for which a NPDES permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue to meet the effluent limits established by the permit, unless the permittee establishes that less stringent effluent limits are allowable pursuant to federal law, under section 402(o) of the Clean Water Act, United States Code, title 33, section 1342.]

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2. Location map of permitted facility

Figure 2.1 – Location of Permitted Facility: Plant Site, Mine Site, and Transportation & Utility Corridor

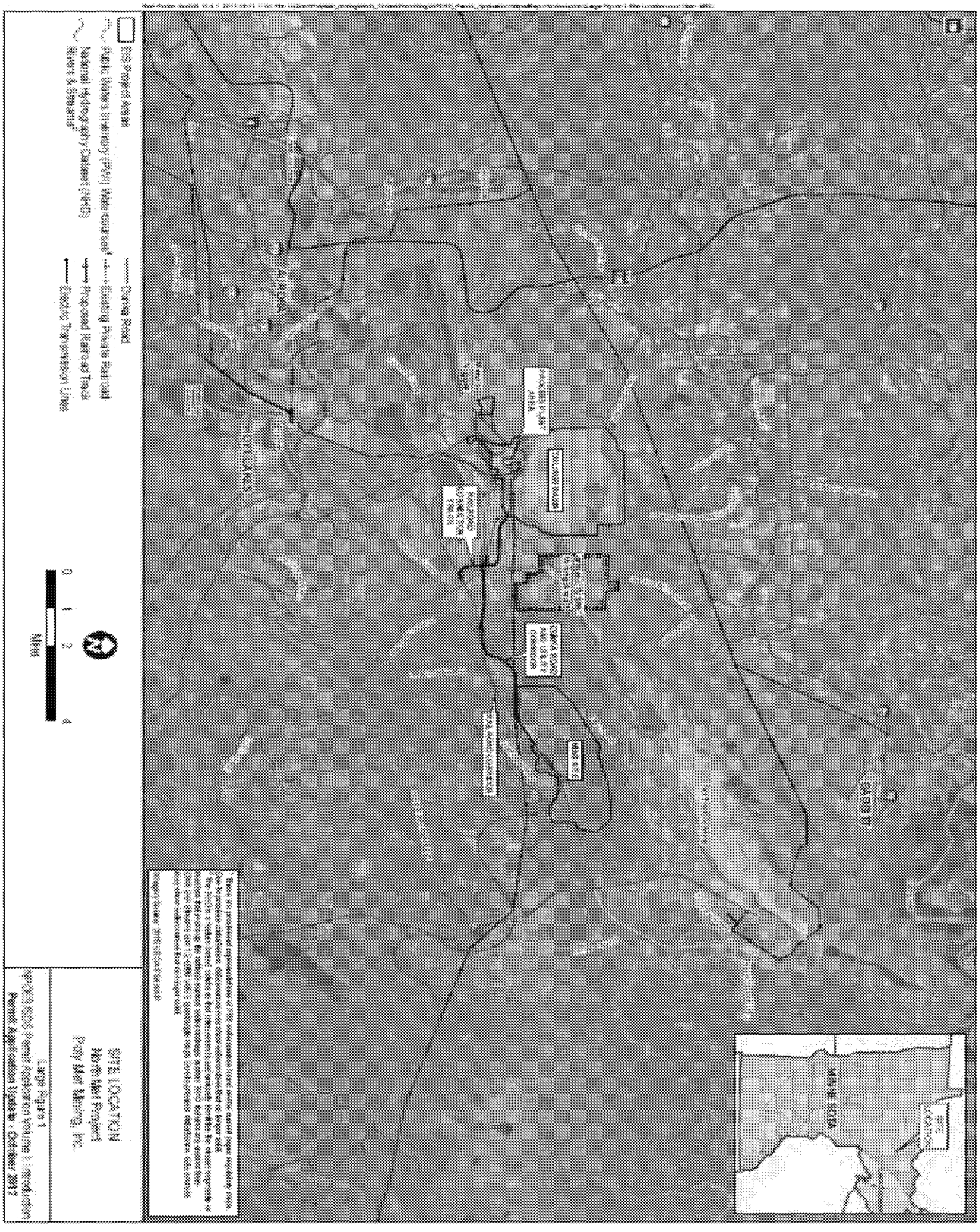


Figure 2.2 – Project Layout of Permitted Facility: Full Buildout at Approximately Mine Year 11

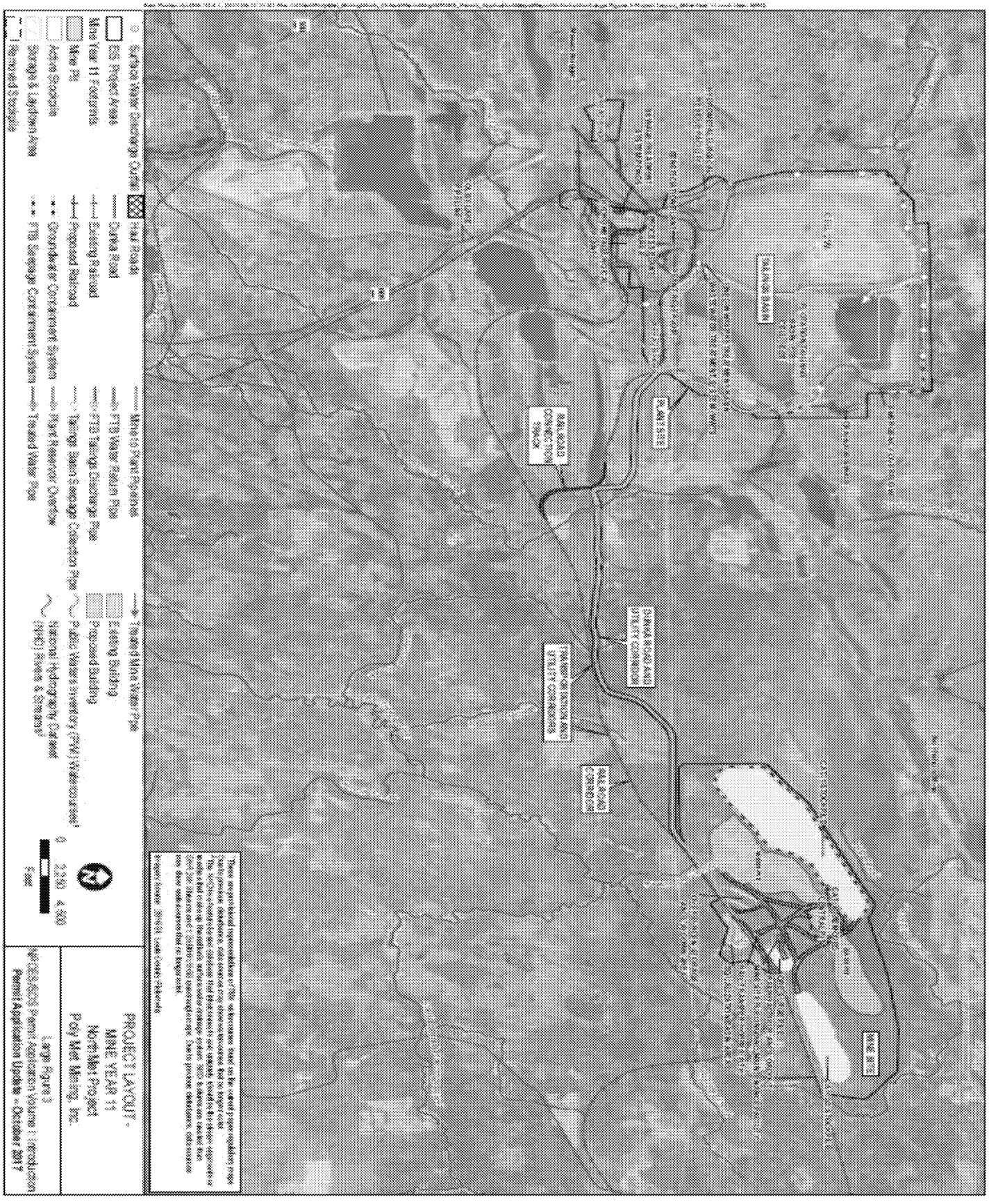


Figure 2.3 Mine Site Location Map

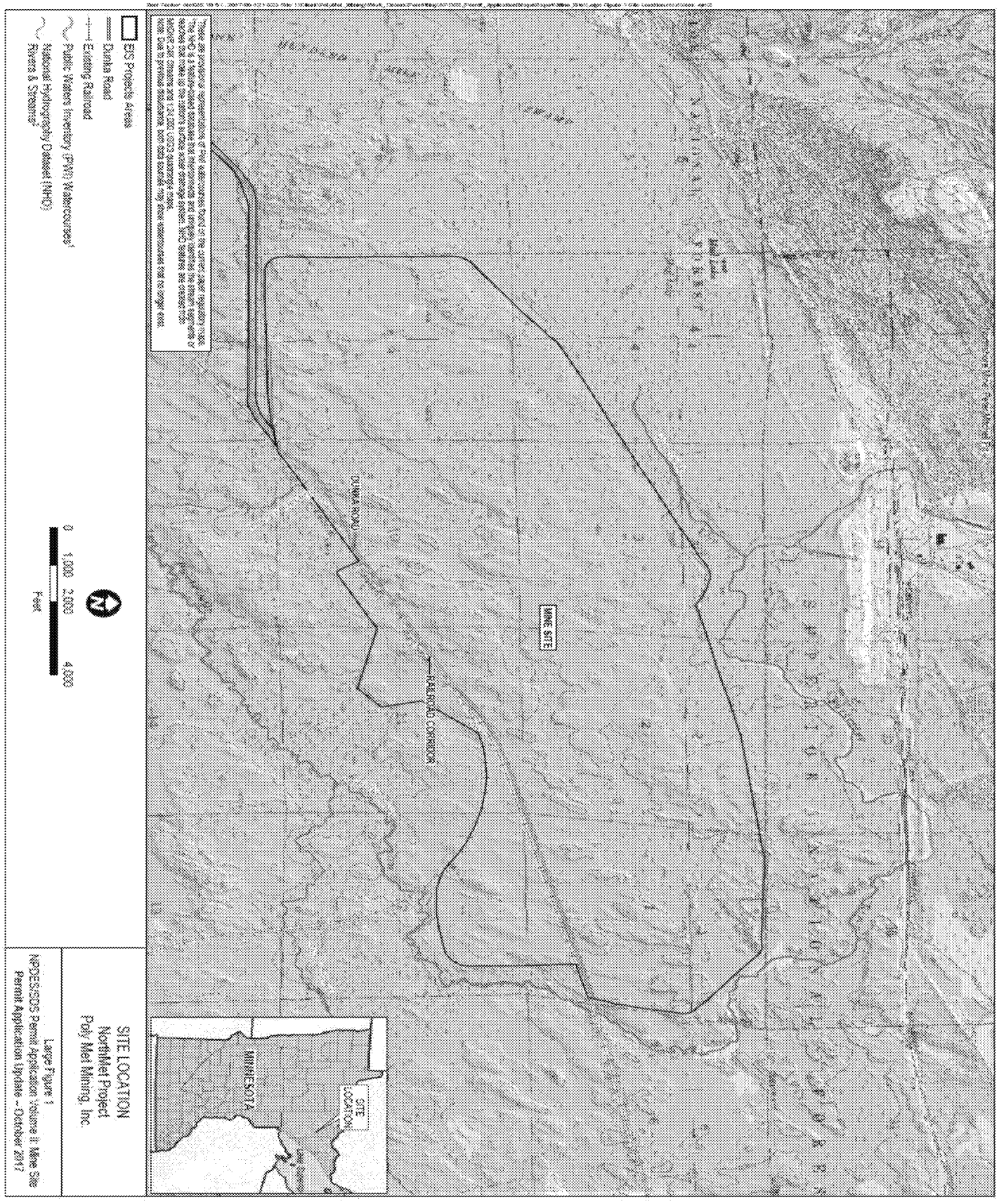


Figure 2.4 – Mine Site Layout: Full Buildout at Approximately Mine Year 11

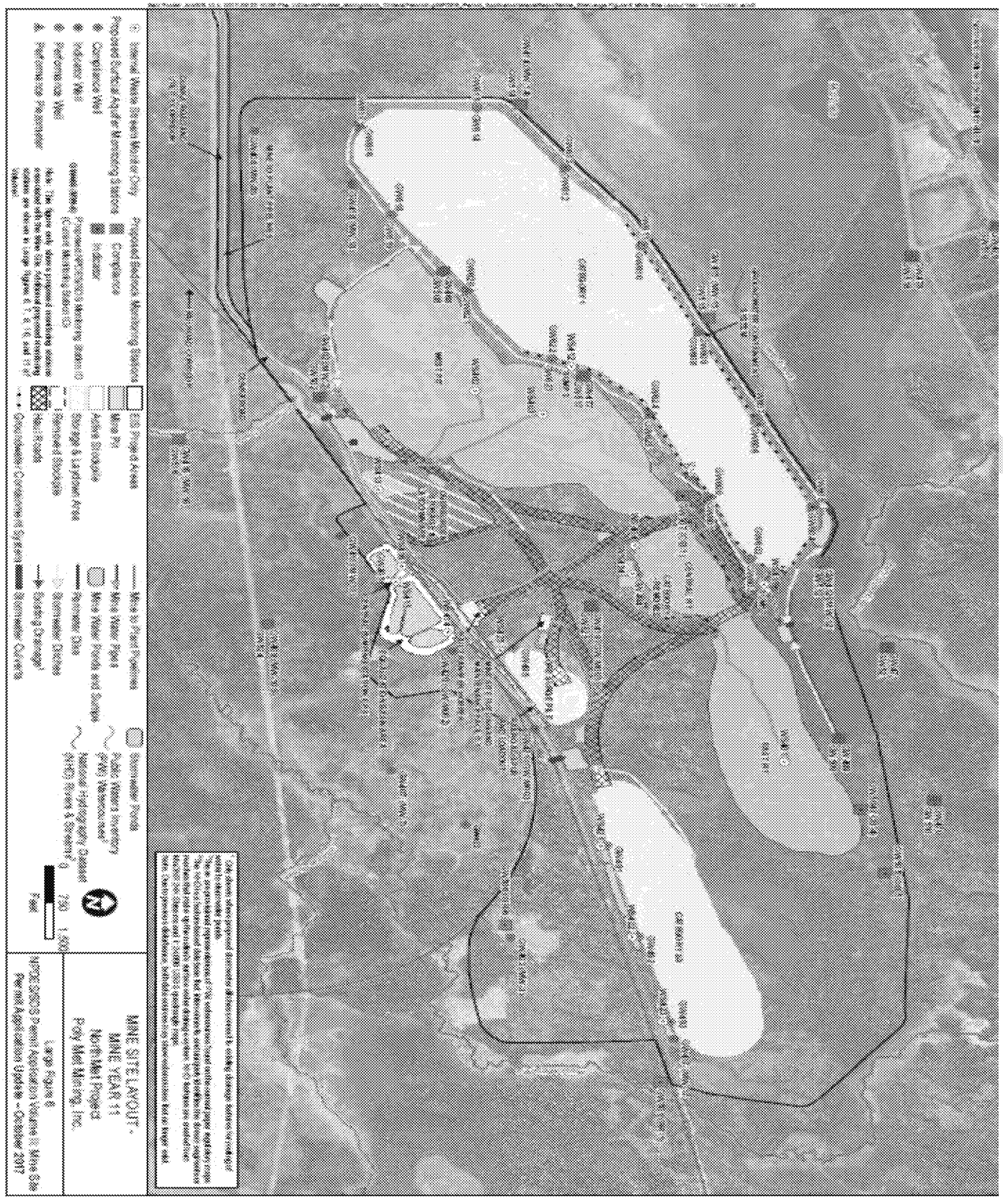


Figure 2.5 Plant site Map

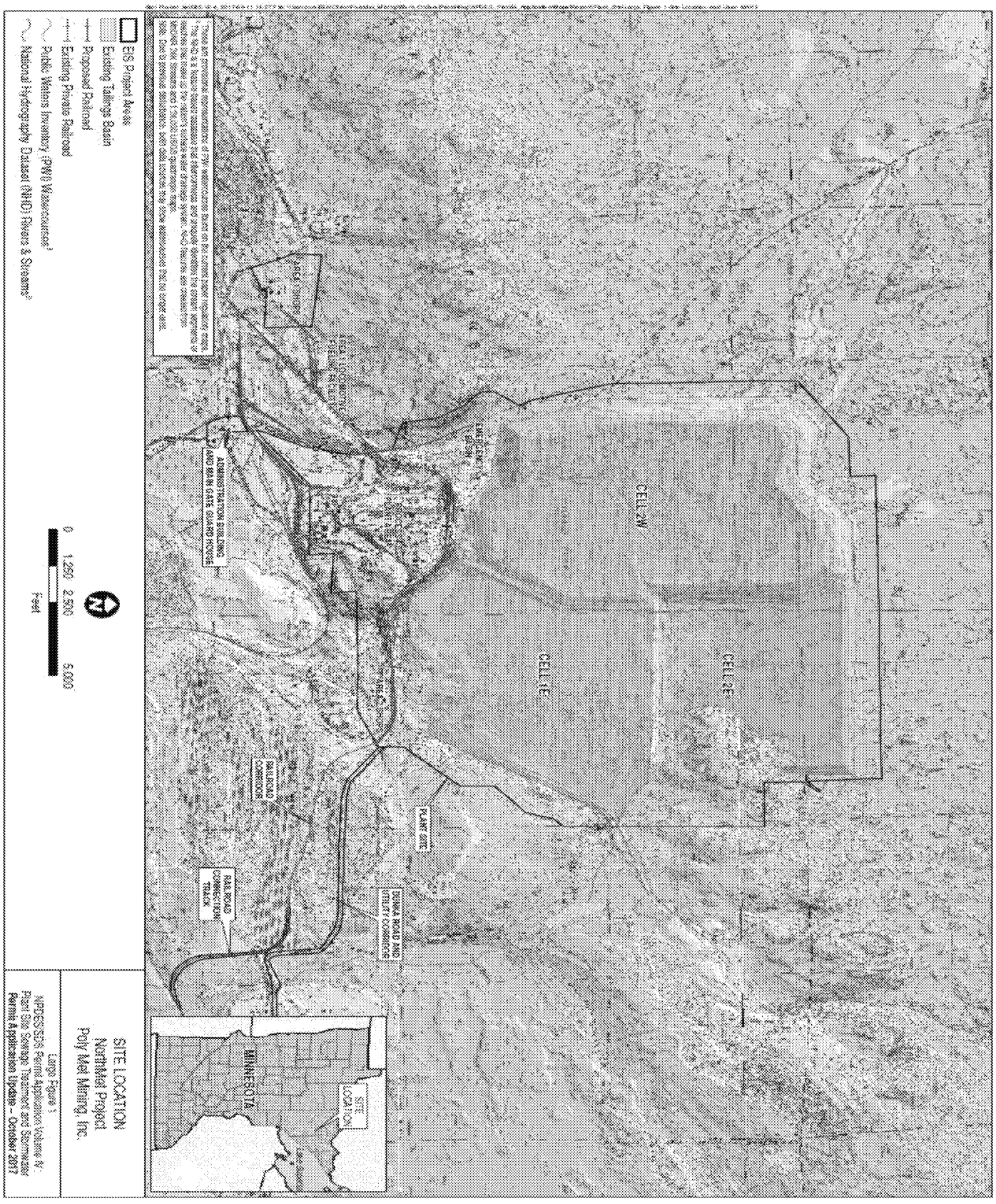


Figure 2.6 – Plant Site Layout: Tailings Basin & Hydrometallurgical Residue Facility at Approximately Mine Year 20

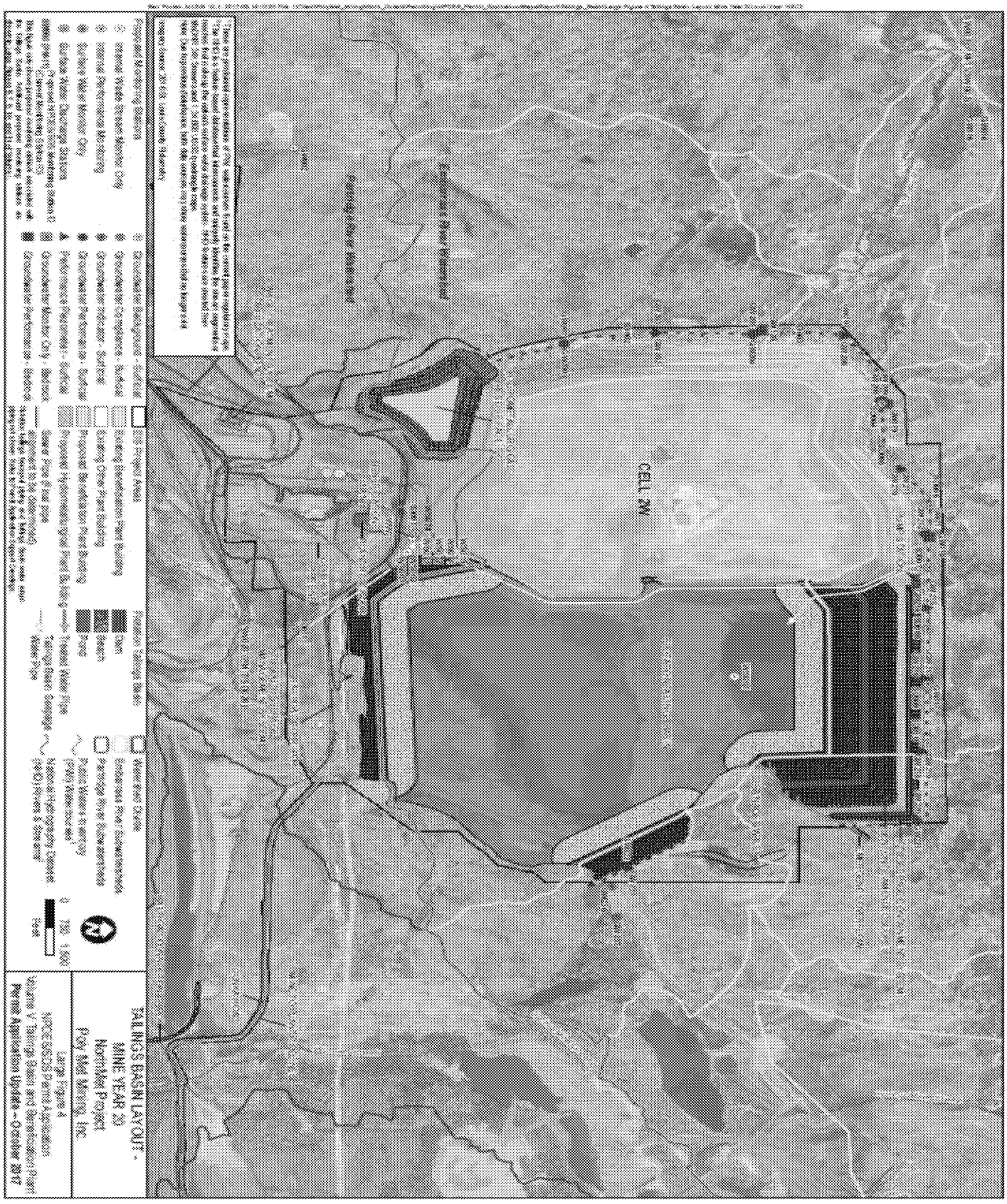


Figure 2.7 – Transportation and Utility Corridors Map

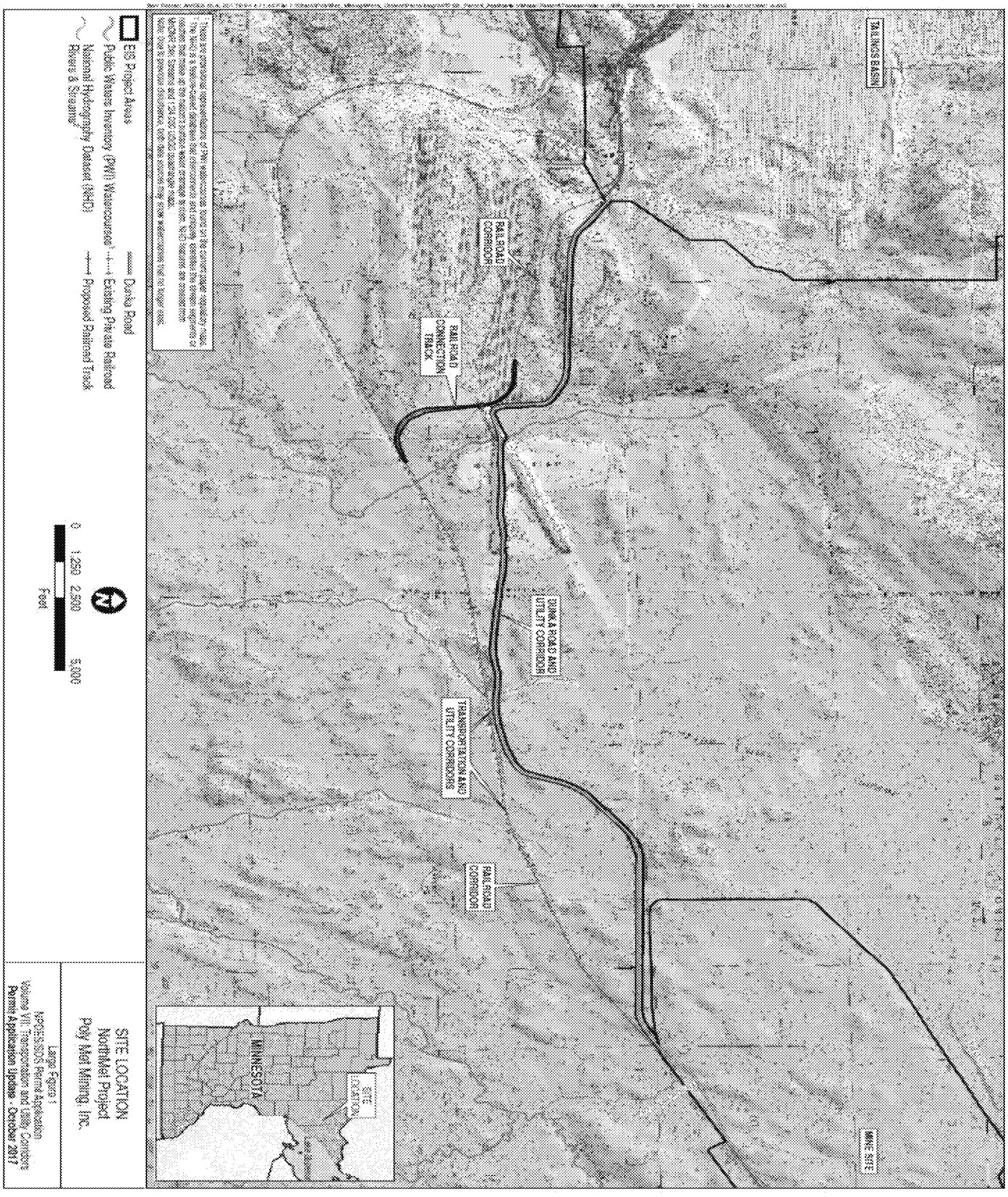
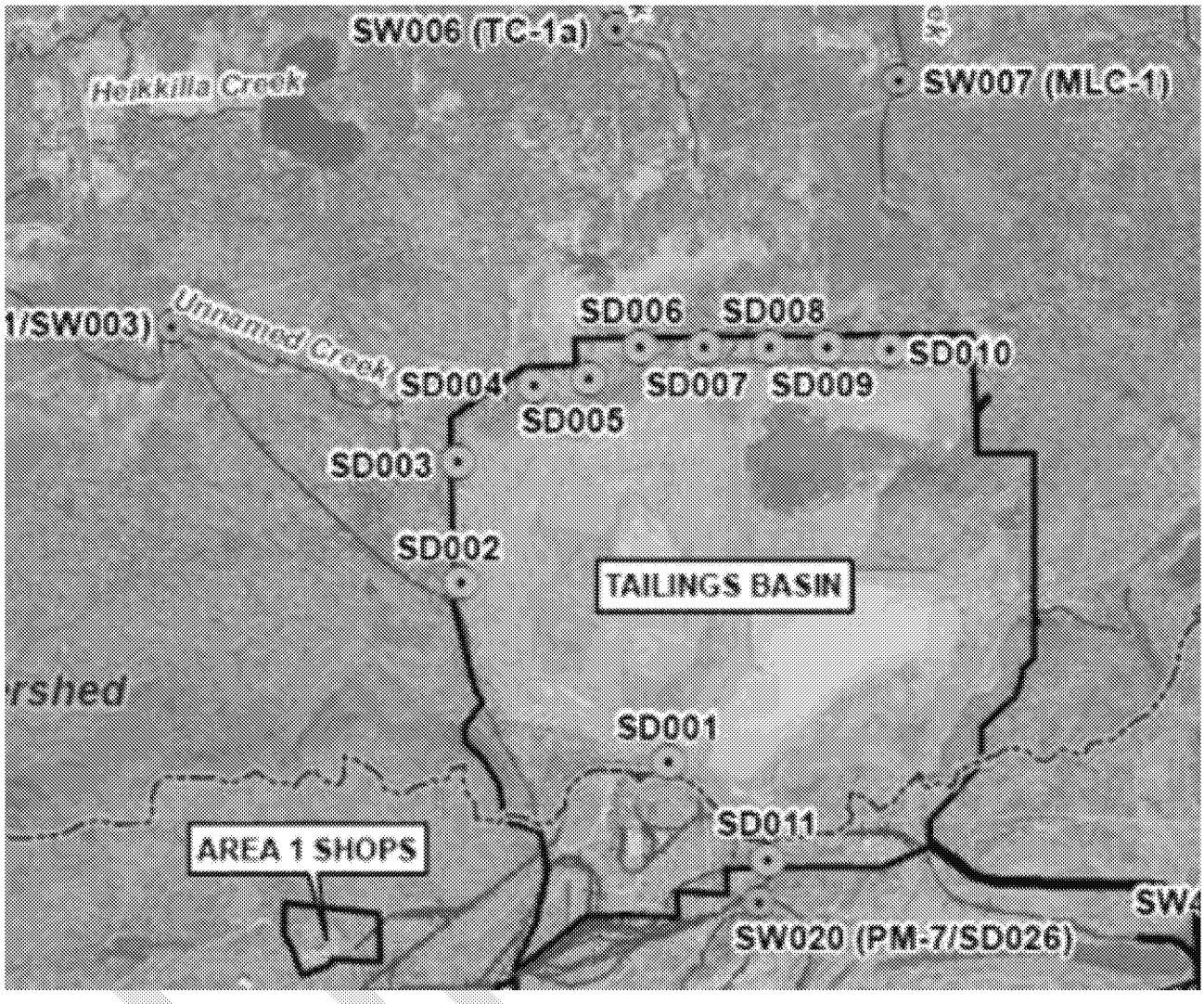


Figure 2.8 – Location of Outfalls



3. Flow diagram

Figure 3.1 – Overall Flow Schematic

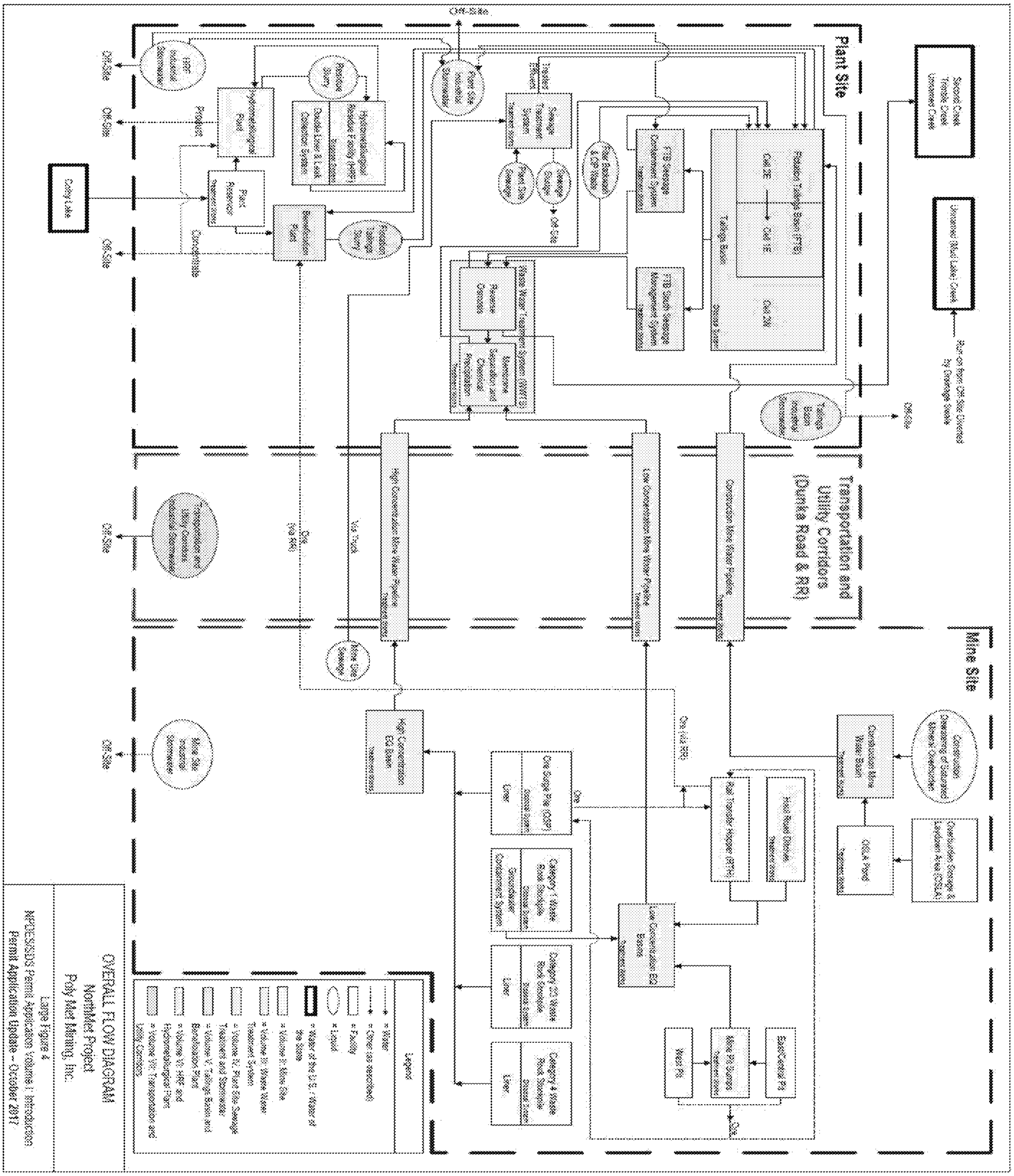
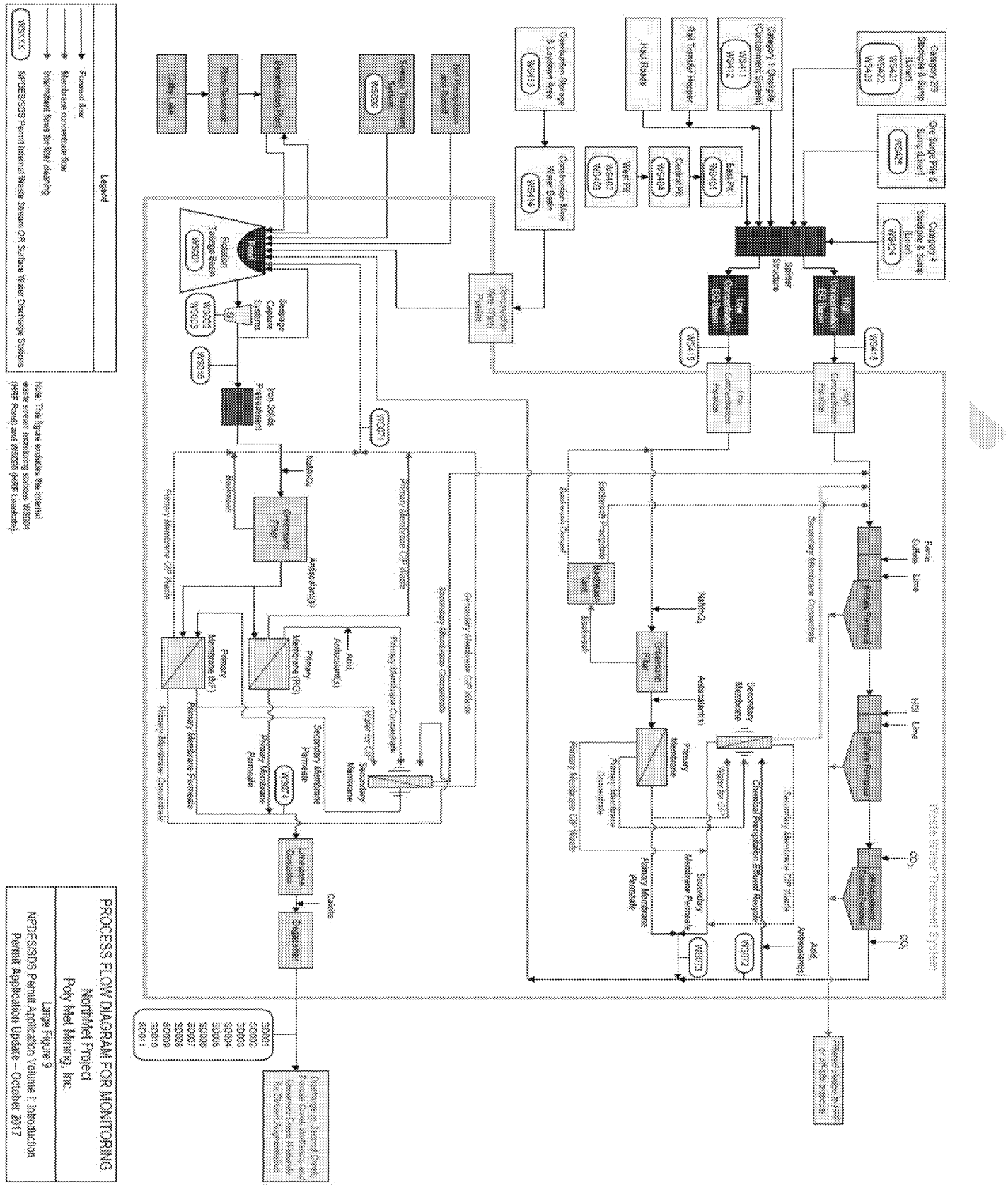


Figure 3.2 – Process Flow Diagram



4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
GW002	Piezometer, Upgradient	GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	T59N, R14W, S18, NW Quarter of the NW Quarter
GW009	Piezometer, Downgradient	GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	T60N, R14W, S28, NE Quarter of the SE Quarter
GW010	Piezometer, Downgradient	GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	T60N, R14W, S31, NE Quarter of the NE Quarter
GW015	Piezometer, Downgradient	GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	T59N, R15W, S10, NE Quarter of the NE Quarter
GW016	Piezometer, Downgradient	GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	T60N, R14W, S31, SW Quarter of the NW Quarter
GW109	Piezometer, Downgradient	GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	T60N, R14W, S28, NE Quarter of the SE Quarter
GW110	Piezometer, Downgradient	GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	T60N, R14W, S31, NE Quarter of the NE Quarter
GW115	Piezometer, Downgradient	GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	T59N, R15W, S10, NE Quarter of the NE Quarter
GW116	Piezometer, Downgradient	GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	T60N, R14W, S31, SW Quarter of the NW Quarter
GW117	Piezometer, Downgradient	GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	T60N, R14W, S33, NE Quarter of the SE Quarter

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GW118	Piezometer, Downgradient	GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	T60N, R14W, S33, NW Quarter of the SW Quarter
GW119	Piezometer, Downgradient	GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	T60N, R14W, S32, SW Quarter of the SE Quarter
GW120	Piezometer, Downgradient	GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	T59N, R14W, S05, SW Quarter of the NW Quarter
GW121	Well, Downgradient	GW121: Bedrock - Plant Site.	T59N, R14W, S08, NW Quarter of the NW Quarter
GW200	Well, Other	GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	T59N, R14W, S08, NW Quarter of the NW Quarter
GW201	Well, Other	GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	T59N, R14W, S08, NW Quarter of the NW Quarter
GW202	Piezometer, Other	GW202: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW202-GW203)	T59N, R14W, S05, NW Quarter of the SW Quarter
GW203	Piezometer, Other	GW203: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW202-GW203)	T59N, R14W, S05, NW Quarter of the SW Quarter
GW204	Well, Other	GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	T59N, R14W, S05, SW Quarter of the NW Quarter

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GW205	Well, Other	GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	T59N, R14W, S05, SW Quarter of the NW Quarter
GW206	Piezometer, Other	GW206: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW206-GW207)	T60N, R14W, S31, SW Quarter of the SW Quarter
GW207	Piezometer, Other	GW207: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW206-GW207)	T60N, R14W, S31, SW Quarter of the SW Quarter
GW208	Well, Other	GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	T60N, R14W, S31, SW Quarter of the SE Quarter
GW209	Well, Other	GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	T60N, R14W, S31, SW Quarter of the SE Quarter
GW210	Piezometer, Other	GW210: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW210-GW211)	T60N, R14W, S31, SE Quarter of the SE Quarter
GW211	Piezometer, Other	GW211: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW210-GW211)	T60N, R14W, S31, SE Quarter of the SE Quarter
GW212	Well, Other	GW212: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW211-GW212)	T60N, R14W, S33, NW Quarter of the SW Quarter
GW213	Well, Other	GW213: Surficial Aquifer - Plant Site. FTB Seepage Containment System	T60N, R14W, S33, NW Quarter of the SW Quarter

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		performance monitoring paired wells (GW212-GW213)	
GW214	Piezometer, Other	GW214: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW214-GW215)	T60N, R14W, S33, NW Quarter of the SE Quarter
GW215	Piezometer, Other	GW215: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW214-GW215)	T60N, R14W, S33, NW Quarter of the SE Quarter
GW216	Well, Other	GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	T60N, R14W, S33, NE Quarter of the SE Quarter
GW217	Well, Other	GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	T60N, R14W, S33, NE Quarter of the SE Quarter
GW218	Piezometer, Other	GW218: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW218-GW219)	T60N, R14W, S34, NE Quarter of the SW Quarter
GW219	Piezometer, Other	GW219: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW218-GW219)	T60N, R14W, S34, NE Quarter of the SW Quarter
GW220	Well, Other	GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	T60N, R14W, S34, NW Quarter of the SE Quarter
GW221	Well, Other	GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	T60N, R14W, S34, NW Quarter of the SE Quarter

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GW222	Piezometer, Other	GW222: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW222-GW223)	T59N, R14W, S03, SE Quarter of the SE Quarter
GW223	Piezometer, Other	GW223: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW222-GW223)	T59N, R14W, S03, SE Quarter of the SE Quarter
GW236	Well, Other	GW236: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells. East of east dam	T59N, R14W, S03, SE Quarter of the SE Quarter
GW237	Well, Other	GW237: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells. East of east dam	T59N, R14W, S02, SW Quarter of the SW Quarter
GW402	Well, Downgradient	MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	T59N, R13W, S10, SW Quarter of the SW Quarter
GW403	Well, Downgradient	MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	T59N, R13W, S12, SE Quarter of the NW Quarter
GW405	Well, Downgradient	MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	T59N, R13W, S10, NE Quarter of the SE Quarter
GW407	Well, Downgradient	MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	T59N, R13W, S11, NW Quarter of the SE Quarter
GW408	Well, Downgradient	MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S09, SW Quarter of the SW Quarter
GW409	Well, Downgradient	MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	T59N, R13W, S11, SW Quarter of the SW Quarter

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GW411	Well, Downgradient	MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	T59N, R13W, S10, SE Quarter of the SE Quarter
GW412	Well, Downgradient	MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S03, SE Quarter of the NE Quarter
GW414	Well, Downgradient	MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S09, NW Quarter of the NW Quarter
GW415	Well, Downgradient	MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S04, NE Quarter of the SE Quarter
GW416	Well, Downgradient	MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	T59N, R13W, S15, NE Quarter of the NW Quarter
GW417	Well, Downgradient	MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	T59N, R13W, S01, SW Quarter of the SE Quarter
GW418	Well, Downgradient	MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	T59N, R13W, S09, NE Quarter of the SW Quarter
GW419	Well, Downgradient	GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	T59N, R13W, S11, NW Quarter of the NW Quarter
GW420	Well, Downgradient	GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	T59N, R13W, S11, SW Quarter of the NW Quarter
GW421	Well, Downgradient	GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	T59N, R13W, S11, NW Quarter of the NE Quarter
GW422	Well, Downgradient	GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	T59N, R13W, S11, SE Quarter of the NE Quarter

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GW468	Well, Downgradient	GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	T59N, R13W, S09, SW Quarter of the NE Quarter
GW470	Well, Other	GW470: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	T60N, R13W, S35, SE Quarter of the SE Quarter
GW471	Well, Other	GW471: Possible North Flow Path Bedrock - Mine Site. North of East Pit and the Mine Site	T59N, R13W, S02, NW Quarter of the NW Quarter
GW472	Well, Other	GW472: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	T60N, R13W, S36, SW Quarter of the NW Quarter
GW473	Well, Other	GW473: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	T60N, R13W, S25, NW Quarter of the SW Quarter
GW477	Well, Downgradient	GW477: Possible North Flow Path Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S10, NW Quarter of the NW Quarter
GW478	Well, Other	GW478: Possible North Flow Path Surficial Aquifer - Mine Site. North of West Pit and the Mine Site	T59N, R13W, S04, NW Quarter of the NE Quarter
GW479	Well, Other	GW479: Possible North Flow Path Surficial Aquifer - Mine Site. North of West Pit and the Mine Site	T60N, R13W, S33, SW Quarter of the SE Quarter
GW491	Well, Other	GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	T59N, R13W, S02, SE Quarter of the SE Quarter
GW492	Well, Other	GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	T59N, R13W, S01, SE Quarter of the SW Quarter
GW493	Well, Other	GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile	T59N, R13W, S01, SW Quarter of the SE Quarter

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		underdrain system (if underdrain is installed)	
GW494	Well, Other	GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	T59N, R13W, S03, SE Quarter of the SE Quarter
GW495	Well, Other	GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	T59N, R13W, S11, NW Quarter of the NW Quarter
GW499	Well, Other	GW499: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit	T59N, R13W, S02, SW Quarter of the NE Quarter
GW501	Well, Downgradient	BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	T59N, R13W, S01, SE Quarter of the SE Quarter
GW502	Well, Downgradient	GW502: Bedrock - Mine Site. Downgradient of West Pit	T59N, R13W, S10, SW Quarter of the SW Quarter
GW504	Well, Other	OB-4: Possible North Flow Path Bedrock - Mine Site. Adjacent to and north of East Pit	T59N, R13W, S02, NE Quarter of the NE Quarter
GW505	Well, Other	OB-5: Possible North Flow Path Bedrock - Mine Site. Adjacent to and northeast of East Pit	T59N, R13W, S01, NW Quarter of the NW Quarter
GW506	Well, Downgradient	BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	T59N, R13W, S12, SE Quarter of the NW Quarter
GW507	Well, Downgradient	OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	T59N, R13W, S03, NW Quarter of the SE Quarter
GW508	Well, Other	GW508: Possible North Flow Path Bedrock - Mine Site. Between West Pit and Category 1 Stockpile Groundwater Containment System	T59N, R13W, S09, SW Quarter of the NE Quarter
GW509	Well, Other	GW509: Possible North Flow Path Bedrock - Mine Site. North of East Pit	T59N, R13W, S02, SW Quarter of the NE Quarter
GW510	Well, Other	GW510: Possible North Flow Path Bedrock - Mine	T60N, R13W, S35, SE Quarter of the SE Quarter

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		Site. North of East Pit and north of Mine Site	
GW512	Well, Downgradient	GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S03, SE Quarter of the NE Quarter
GW514	Well, Downgradient	GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S09, NW Quarter of the NW Quarter
GW515	Well, Downgradient	GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S04, NE Quarter of the SE Quarter
GW516	Well, Downgradient	GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	T59N, R13W, S15, NE Quarter of the NW Quarter
GW517	Well, Other	GW517: Possible North Flow Path Bedrock - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	T59N, R13W, S10, NW Quarter of the NW Quarter
GW518	Well, Other	GW518: Possible North Flow Path Bedrock - Mine Site. North of West Pit and north of Mine Site	T59N, R13W, S04, NW Quarter of the NE Quarter
GW519	Well, Other	GW519: Possible North Flow Path Bedrock - Mine Site. North of West Pit and north of Mine Site	T60N, R13W, S33, SW Quarter of the SE Quarter
GW521	Well, Other	GW521: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	T59N, R13W, S02, NW Quarter of the NW Quarter
GW522	Well, Other	GW522: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	T60N, R13W, S36, SW Quarter of the NW Quarter
GW523	Well, Other	GW523: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	T60N, R13W, S25, NW Quarter of the SW Quarter
GW524	Well, Downgradient	GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area,	T59N, R13W, S11, SW Quarter of the SW Quarter

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		OSLA, Category 4 Waste Rock Stockpile, and Central Pit	
GW525	Well, Downgradient	GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	T59N, R13W, S11, NW Quarter of the NW Quarter
GW600	Piezometer, Other	GW600: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW600-GW601)	T59N, R13W, S03, NW Quarter of the SE Quarter
GW601	Piezometer, Other	GW601: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW600-GW601)	T59N, R13W, S03, NW Quarter of the SE Quarter
GW602	Well, Other	GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	T59N, R13W, S03, NE Quarter of the SE Quarter
GW603	Well, Other	GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	T59N, R13W, S03, NE Quarter of the SE Quarter
GW604	Piezometer, Other	GW604: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW604-GW605)	T59N, R13W, S03, SW Quarter of the NE Quarter
GW605	Piezometer, Other	GW605: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW604-GW605)	T59N, R13W, S03, SW Quarter of the NE Quarter

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GW606	Well, Other	GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	T59N, R13W, S03, SE Quarter of the NW Quarter
GW607	Well, Other	GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	T59N, R13W, S03, SE Quarter of the NW Quarter
GW608	Piezometer, Other	GW608: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW608-GW609)	T59N, R13W, S04, NE Quarter of the SE Quarter
GW609	Piezometer, Other	GW609: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW608-GW609)	T59N, R13W, S04, NE Quarter of the SE Quarter
GW610	Well, Other	GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	T59N, R13W, S04, SW Quarter of the SE Quarter
GW611	Well, Other	GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	T59N, R13W, S04, SW Quarter of the SE Quarter
GW612	Piezometer, Other	GW612: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW612-GW613)	T59N, R13W, S09, NE Quarter of the NW Quarter
GW613	Piezometer, Other	GW613: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater	T59N, R13W, S09, NE Quarter of the NW Quarter

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		Containment System performance monitoring paired piezometers (GW612-GW613)	
GW614	Well, Other	GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	T59N, R13W, S09, SW Quarter of the NW Quarter
GW615	Well, Other	GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	T59N, R13W, S09, SW Quarter of the NW Quarter
GW616	Piezometer, Other	GW616: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW616-GW617)	T59N, R13W, S09, NW Quarter of the SW Quarter
GW617	Piezometer, Other	GW617: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW616-GW617)	T59N, R13W, S09, NW Quarter of the SW Quarter
GW618	Well, Other	GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	T59N, R13W, S09, NE Quarter of the SW Quarter
GW619	Well, Other	GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	T59N, R13W, S09, NE Quarter of the SW Quarter
GW620	Piezometer, Other	GW620: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring	T59N, R13W, S09, SE Quarter of the NE Quarter

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		paired piezometers (GW620-GW621)	
GW621	Piezometer, Other	GW621: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW620-GW621)	T59N, R13W, S09, SE Quarter of the NE Quarter
GW622	Well, Other	GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	T59N, R13W, S10, NW Quarter of the NW Quarter
GW623	Well, Other	GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	T59N, R13W, S10, NW Quarter of the NW Quarter
GW624	Piezometer, Other	GW624: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW624-GW625)	T59N, R13W, S03, SE Quarter of the SW Quarter
GW625	Piezometer, Other	GW625: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW624-GW625)	T59N, R13W, S03, SE Quarter of the SW Quarter
SD001	Effluent To Surface Water	SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	T59N, R14W, S09, NW Quarter of the SW Quarter
SD002	Effluent To Surface Water	SD002: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Unnamed Creek	T59N, R14W, S05, SW Quarter of the SW Quarter
SD003	Effluent To Surface Water	SD003: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater	T59N, R14W, S05, NW Quarter of the NW Quarter

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		wetlands of Unnamed Creek	
SD004	Effluent To Surface Water	SD004: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S32, SW Quarter of the SE Quarter
SD005	Effluent To Surface Water	SD005: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S32, SE Quarter of the SE Quarter
SD006	Effluent To Surface Water	SD006: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S33, NW Quarter of the SW Quarter
SD007	Effluent To Surface Water	SD007: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S33, NE Quarter of the SW Quarter
SD008	Effluent To Surface Water	SD008: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S33, NW Quarter of the SE Quarter
SD009	Effluent To Surface Water	SD009: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S34, NW Quarter of the SW Quarter
SD010	Effluent To Surface Water	SD010: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	T60N, R14W, S34, NE Quarter of the SW Quarter
SD011	Effluent To Surface Water	SD011: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Second Creek	T59N, R14W, S16, NW Quarter of the NE Quarter
SW003	Stream/River/Ditch, Downstream	PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	T60N, R15W, S36, NE Quarter of the SE Quarter
SW005	Stream/River/Ditch, Downstream	PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	T59N, R15W, S04, SE Quarter of the NE Quarter
SW006	Stream/River/Ditch, Downstream	TC-1a: Surface Water Monitoring - Plant Site.	T60N, R14W, S29, NE Quarter of the NE Quarter

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		Downstream - Trimble Creek	
SW007	Stream/River/Ditch, Downstream	MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	T60N, R14W, S27, SE Quarter of the NW Quarter
SW008	Stream/River/Ditch, Upstream	PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	T60N, R14W, S16, NE Quarter of the SE Quarter
SW020	Stream/River/Ditch, Downstream	PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	T59N, R14W, S16, SW Quarter of the NE Quarter
SW402	Stream/River/Ditch, Upstream	PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	T60N, R13W, S36, SE Quarter of the NW Quarter
SW407	Stream/River/Ditch, Downstream	WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	T59N, R13W, S17, NW Quarter of the SE Quarter
SW408	Stream/River/Ditch, Downstream	LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	T59N, R13W, S18, SW Quarter of the SE Quarter
SW409	Stream/River/Ditch, Downstream	PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	T59N, R14W, S24, NE Quarter of the NW Quarter
SW410	Stream/River/Ditch, Upstream	PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	T59N, R14W, S14, NE Quarter of the NE Quarter
SW411	Stream/River/Ditch, Upstream	LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	T59N, R13W, S18, NW Quarter of the SE Quarter
SW412	Stream/River/Ditch, Upstream	WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	T59N, R13W, S17, NW Quarter of the SE Quarter
SW413	Stream/River/Ditch, Downstream	SW004c: Surface Water Monitoring - Mine SIte. Downstream - Partridge River	T59N, R13W, S15, NE Quarter of the SW Quarter
SW414	Stream/River/Ditch, Downstream	SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	T59N, R13W, S10, SW Quarter of the SW Quarter

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WS001	Internal Waste Stream	WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	T59N, R14W, S04, SE Quarter of the NE Quarter
WS002	Internal Waste Stream	WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	T59N, R15W, S09, NW Quarter of the SW Quarter
WS003	Internal Waste Stream	WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	T59N, R16W, S09, NW Quarter of the SW Quarter
WS004	Internal Waste Stream	WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	T59N, R17W, S08, NW Quarter of the SE Quarter
WS005	Internal Waste Stream	WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	T59N, R18W, S08, NE Quarter of the SW Quarter
WS009	Internal Waste Stream	WS009: Internal Waste Stream Monitoring - Plant Site. Sewage Treatment Stabilization Ponds	T59N, R19W, S17, NW Quarter of the SE Quarter
WS015	Internal Waste Stream	WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	T59N, R14W, S09, NW Quarter of the SW Quarter
WS072	Internal Waste Stream	WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	T59N, R21W, S09, NW Quarter of the SW Quarter
WS073	Internal Waste Stream	WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	T59N, R21W, S09, NW Quarter of the SW Quarter
WS074	Internal Waste Stream	WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	T59N, R21W, S09, NW Quarter of the SW Quarter
WS401	Internal Waste Stream	WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	T59N, R13W, S02, SW Quarter of the NE Quarter

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WS402	Internal Waste Stream	WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	T59N, R13W, S10, SW Quarter of the NW Quarter
WS403	Internal Waste Stream	WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	T59N, R13W, S10, NE Quarter of the NW Quarter
WS404	Internal Waste Stream	WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	T59N, R13W, S03, SE Quarter of the SE Quarter
WS411	Internal Waste Stream	WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	T59N, R13W, S03, SE Quarter of the NE Quarter
WS412	Internal Waste Stream	WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	T59N, R13W, S10, NW Quarter of the NW Quarter
WS413	Internal Waste Stream	WS413: Internal Waste Stream Monitoring - Mine Site. OSLA Runoff	T59N, R13W, S10, NW Quarter of the SE Quarter
WS414	Internal Waste Stream	WS414: Internal Waste Stream Monitoring - Mine Site. Construction Mine Water Basin	T59N, R13W, S11, NW Quarter of the SW Quarter
WS415	Internal Waste Stream	WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	T59N, R13W, S10, NE Quarter of the SE Quarter
WS416	Internal Waste Stream	WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	T59N, R13W, S10, NE Quarter of the SE Quarter
WS421	Internal Waste Stream	WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	T59N, R13W, S02, SE Quarter of the SE Quarter

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WS422	Internal Waste Stream	WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	T59N, R13W, S01, SE Quarter of the SW Quarter
WS423	Internal Waste Stream	WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	T59N, R13W, S01, SW Quarter of the SE Quarter
WS424	Internal Waste Stream	WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	T59N, R13W, S03, SE Quarter of the SE Quarter
WS425	Internal Waste Stream	WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	T59N, R13W, S11, SW Quarter of the NW Quarter

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5. Permit requirements

GW002	Piezometer, Upgradient	
		Facility Specific Limit and 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	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)]
GW009	Piezometer, Downgradient	
		Facility Specific Limit and 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	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)]
GW010	Piezometer, Downgradient	
		Facility Specific Limit and 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	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)]
GW015	Piezometer, Downgradient	
		Facility Specific Limit and 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	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)]
GW016	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring 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)]

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	5.5.2	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)]
GW109	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.6.1	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)]
	5.6.2	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)]
GW110	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.7.1	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)]
	5.7.2	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)]
GW115	Piezometer, Downgradient	
		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	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)]
GW116	Piezometer, Downgradient	
		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	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)]

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GW117	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.10.1	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)]
	5.10.2	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)]
GW118	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.11.1	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)]
	5.11.2	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)]
GW119	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.12.1	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)]
	5.12.2	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)]
GW120	Piezometer, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.13.1	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)]
	5.13.2	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)]
GW121	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.14.1	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)]
	5.14.2	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

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		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)]
GW200	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.15.1	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)]
	5.15.2	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)]
GW201	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.16.1	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)]
	5.16.2	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)]
GW202	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.17.1	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)]
	5.17.2	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)]
GW203	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.18.1	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)]
	5.18.2	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)]
GW204	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.19.1	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)]
	5.19.2	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

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		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)]
GW205	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.20.1	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)]
	5.20.2	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)]
GW206	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.21.1	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)]
	5.21.2	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)]
GW207	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.22.1	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)]
	5.22.2	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)]
GW208	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.23.1	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)]
	5.23.2	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)]
GW209	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.24.1	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)]
	5.24.2	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

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		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)]
GW210	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.25.1	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)]
	5.25.2	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)]
GW211	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.26.1	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)]
	5.26.2	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)]
GW212	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.27.1	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)]
	5.27.2	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)]
GW213	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.28.1	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)]
	5.28.2	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)]
GW214	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.29.1	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)]
	5.29.2	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

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		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)]
GW215	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.30.1	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)]
	5.30.2	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)]
GW216	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.31.1	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)]
	5.31.2	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)]
GW217	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.32.1	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)]
	5.32.2	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)]
GW218	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.33.1	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)]
	5.33.2	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)]
GW219	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.34.1	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)]
	5.34.2	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

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		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)]
GW220	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.35.1	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)]
	5.35.2	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)]
GW221	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.36.1	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)]
	5.36.2	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)]
GW222	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.37.1	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)]
	5.37.2	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)]
GW223	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.38.1	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)]
	5.38.2	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)]
GW236	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.39.1	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)]
	5.39.2	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

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		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)]
GW237	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.40.1	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)]
	5.40.2	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)]
GW402	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.41.1	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)]
	5.41.2	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)]
GW403	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.42.1	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)]
	5.42.2	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)]
GW405	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.43.1	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)]
	5.43.2	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)]
GW407	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.44.1	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)]
	5.44.2	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

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		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)]
GW408	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.45.1	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)]
	5.45.2	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)]
GW409	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.46.1	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)]
	5.46.2	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)]
GW411	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.47.1	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)]
	5.47.2	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)]
GW412	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.48.1	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)]
	5.48.2	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)]
GW414	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.49.1	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)]
	5.49.2	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

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		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)]
GW415	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.50.1	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)]
	5.50.2	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)]
GW416	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.51.1	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)]
	5.51.2	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)]
GW417	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.52.1	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)]
	5.52.2	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)]
GW418	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.53.1	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)]
	5.53.2	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)]
GW419	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.54.1	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)]
	5.54.2	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

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		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)]
GW420	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.55.1	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)]
	5.55.2	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)]
GW421	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.56.1	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)]
	5.56.2	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)]
GW422	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.57.1	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)]
	5.57.2	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)]
GW468	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.58.1	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)]
	5.58.2	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)]
GW470	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.59.1	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)]
	5.59.2	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

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		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)]
GW471	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.60.1	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)]
	5.60.2	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)]
GW472	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.61.1	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)]
	5.61.2	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)]
GW473	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.62.1	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)]
	5.62.2	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)]
GW477	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.63.1	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)]
	5.63.2	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)]
GW478	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.64.1	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)]
	5.64.2	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

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		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)]
GW479	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.65.1	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)]
	5.65.2	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)]
GW491	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.66.1	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)]
	5.66.2	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)]
GW492	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.67.1	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)]
	5.67.2	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)]
GW493	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.68.1	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)]
	5.68.2	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)]
GW494	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.69.1	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)]
	5.69.2	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

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		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)]
GW495	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.70.1	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)]
	5.70.2	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)]
GW499	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.71.1	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)]
	5.71.2	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)]
GW501	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.72.1	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)]
	5.72.2	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)]
GW502	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.73.1	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)]
	5.73.2	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)]
GW504	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.74.1	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)]
	5.74.2	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

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		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)]
GW505	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.75.1	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)]
	5.75.2	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)]
GW506	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.76.1	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)]
	5.76.2	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)]
GW507	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.77.1	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)]
	5.77.2	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)]
GW508	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.78.1	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)]
	5.78.2	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)]
GW509	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.79.1	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)]
	5.79.2	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

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		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)]
GW510	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.80.1	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)]
	5.80.2	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)]
GW512	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.81.1	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)]
	5.81.2	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)]
GW514	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.82.1	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)]
	5.82.2	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)]
GW515	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.83.1	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)]
	5.83.2	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)]
GW516	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.84.1	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)]
	5.84.2	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

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		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)]
GW517	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.85.1	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)]
	5.85.2	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)]
GW518	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.86.1	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)]
	5.86.2	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)]
GW519	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.87.1	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)]
	5.87.2	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)]
GW521	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.88.1	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)]
	5.88.2	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)]
GW522	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.89.1	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)]
	5.89.2	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

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		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)]
GW523	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.90.1	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)]
	5.90.2	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)]
GW524	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.91.1	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)]
	5.91.2	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)]
GW525	Well, Downgradient	
		Facility Specific Limit and Monitoring Requirements
	5.92.1	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)]
	5.92.2	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)]
GW600	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.93.1	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)]
	5.93.2	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)]
GW601	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.94.1	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)]
	5.94.2	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

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		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)]
GW602	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.95.1	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)]
	5.95.2	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)]
GW603	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.96.1	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)]
	5.96.2	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)]
GW604	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.97.1	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)]
	5.97.2	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)]
GW605	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.98.1	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)]
	5.98.2	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)]
GW606	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.99.1	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)]
	5.99.2	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

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		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)]
GW607	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.100.1	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)]
	5.100.2	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)]
GW608	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.101.1	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)]
	5.101.2	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)]
GW609	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.102.1	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)]
	5.102.2	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)]
GW610	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.103.1	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)]
	5.103.2	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)]
GW611	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.104.1	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)]
	5.104.2	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

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		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)]
GW612	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.105.1	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)]
	5.105.2	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)]
GW613	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.106.1	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)]
	5.106.2	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)]
GW614	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.107.1	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)]
	5.107.2	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)]
GW615	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.108.1	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)]
	5.108.2	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)]
GW616	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.109.1	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)]
	5.109.2	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

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		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)]
GW617	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.110.1	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)]
	5.110.2	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)]
GW618	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.111.1	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)]
	5.111.2	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)]
GW619	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.112.1	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)]
	5.112.2	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)]
GW620	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.113.1	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)]
	5.113.2	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)]
GW621	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.114.1	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)]
	5.114.2	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

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		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)]
GW622	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.115.1	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)]
	5.115.2	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)]
GW623	Well, Other	
		Facility Specific Limit and Monitoring Requirements
	5.116.1	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)]
	5.116.2	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)]
GW624	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.117.1	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)]
	5.117.2	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)]
GW625	Piezometer, Other	
		Facility Specific Limit and Monitoring Requirements
	5.118.1	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)]
	5.118.2	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)]
SD001	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.119.1	The discharge of treated wastewater from the WWTS must not violate state water quality standards. [Minn. Stat. § 115.03 subd. 1]

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	5.119.2	The MPCA may modify this permit, require corrective actions, or take other actions if it determines that a discharge authorized by this permit is causing or contributing to a violation of water quality standards. [Minn. Stat. § 115.03; Minn. R. 7001.0170]
	5.119.3	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)]
	5.119.4	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.119.5	Samples for Station SD001 must be taken at a point representative of the blended effluent from the reverse osmosis and nanofiltration membranes and after discharge stabilization. [Minn. R. 7001.0150, Subp. 2(B)]
	5.119.6	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on the 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)]
		Chronic Toxicity Requirements
	5.120.7	General Requirements. [Minn. R. 7001]
	5.120.8	This permit includes a chronic whole effluent toxicity limit of 1.0 TUc for Surface Discharge Station SD001. A violation of the 1.0 TUc limit constitutes a violation of the permit. [Minn. R. 7001.0150, 2(B)]
	5.120.9	The Permittee shall submit quarterly chronic toxicity test battery results : Due quarterly following commencement of discharge from the WWTS. [Minn. R. 7001]
	5.120.10	Any test that exceeds 1.0 TUc shall be re-tested according to the Positive Toxicity Results requirement(s) that follow to determine if toxicity is still present above 1.0 TUc. [Minn. R. 7001.0150, 2(B)]
	5.120.11	Species and Procedural Requirements. [Minn. R. 7001]
	5.120.12	Any test that is begun with an effluent sample that exceeds a total ammonia concentration of 5 mg/l shall use the carbon dioxide-controlled atmosphere technique to control pH drift. [Minn. R. 7001]
	5.120.13	Test organisms for each test battery shall include the fathead minnow (Pimephales promelas)-Method 1000.0 and Ceriodaphnia dubia-Method 1002.0. [Minn. R. 7001]
	5.120.14	Static renewal chronic serial dilution tests of the effluent shall consist of a control, 12.5%, 25%, 50%, 75% and 100% effluent. [Minn. R. 7001.0150, 2(B)]
	5.120.15	All effluent samples shall be flow proportioned, 24-hour composites samples. Test solutions shall be renewed daily. Testing of the effluent shall begin within 36 hours of sample collection. Receiving water collected outside of the influence of discharge shall be used for dilution and controls. Chronic toxicity tests shall be conducted in accordance with procedures outlined in EPA-821-R-02-013 "Short-term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" - Fourth Edition (Chronic Manual) and any revisions to the Manual. [Minn. R. 7001.0150, 2(B)]
	5.120.16	Any other circumstances not addressed in the previous requirements or that require deviation from that specified in the previous requirements shall first be approved by the MPCA. [Minn. R. 7001.0170, Minn. R. 7001.0190]
	5.120.17	Quality Control and Report Submittals. [Minn. R. 7001]
	5.120.18	Any test that does not meet quality control measures, or results which the Permittee believes reflect an artifact of testing shall be repeated within two (2) weeks. These reports shall contain information consistent with the report preparation section of the Chronic Manual. The MPCA shall make the final determination regarding test validity. [Minn. R. 7001.0150, 2(B)]
	5.120.19	Positive Toxicity Result for WET. [Minn. R. 7001]

	5.120.20	Should a test exceed 1.0 TUc for whole effluent toxicity based on results from the most sensitive test species, the Permittee shall conduct two repeat test batteries on all species. The repeat tests are to be completed within forty-five (45) days after completion of the positive test. These tests will be used to determine if toxicity exceeding 1.0 TUc remains present for any test species. For both retests, if no toxicity is present above 1.0 TUc for any test species, the Permittee shall return to the test frequency specified by the permit. If either of the repeat test batteries indicate toxicity above 1.0 TUc for any test species, the Permittee shall submit for MPCA review a plan for conducting a Toxicity Reduction Evaluation (TRE), including the Facility Performance Review (to be submitted to the MPCA WQ Submittals Center within 60 days after toxicity discovery date) and, at a minimum, provide quarterly reports starting from the date of TRE submittal, regarding progress towards the identity, source, and any plans for the removal of the toxicity. The TRE shall be consistent with EPA guidance or subsequent procedures approved by the MPCA in attempting to identify and remove the source of the toxicity. [Minn. R. 7001.0150, 3(J)]
	5.120.21	During the TRE, the Permittee shall continue the quarterly chronic toxicity test batteries required in this permit section. Amendments to the initial TRE shall be approved by MPCA staff and the schedules identified therein. [Minn. R. 7001.0150, 2(A)]
	5.120.22	WET Data and Test Acceptability Criteria (TAC) Submittal. [Minn. R. 7001]
	5.120.23	All WET test data and TAC must be submitted to the MPCA by the dates required by this section of the permit using the Minnesota Pollution Control Agency Ceriodaphnia dubia Chronic Toxicity Test Report and/or Minnesota Pollution Control Agency Fathead Minnow Chronic Toxicity Test Report and associated instruction forms. Data not submitted on the correct form(s), or submitted incomplete, will be returned to the permittee and deemed incomplete until adequately submitted on the designated form (identified above). Data should be submitted to: MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. [Minn. R. 7001.0150, 2(B)]
	5.120.24	Permit Re-opening for WET. [Minn. R. 7001]
	5.120.25	Based on the results of the testing, the permit may be modified to include additional toxicity testing and a whole effluent toxicity limit. [Minn. R. 7001.0170, Minn. R. 7001.0190]
	5.120.26	Whole Effluent Toxicity Requirement Definitions. [Minn. R. 7001]
	5.120.27	"Chronic Whole Effluent Toxicity (WET) Test is a static renewal test conducted on an exponentially diluted series of effluent. The purpose is to calculate appropriate biological effect endpoints (NOEC or IC25), specified in the referenced chronic manual. A statistical effect level less than the Receiving Water Concentration (RWC) constitutes a positive test for chronic toxicity. The RWC equals the 100 percent effluent concentration or 1.0 TUc. [Minn. R. 7001]
	5.120.28	"Chronic toxic unit (TUc)" is the reciprocal of the effluent dilution that causes no unacceptable effect on the test organisms by the end of the chronic exposure period. For example, a TUc equals [7Q10flow (mgd) + effluent average dry weather flow (mgd)]/[effluent average dry weather flow (mgd)]. [Minn. R. 7001]
	5.120.29	"Test" refers to an individual species. [Minn. R. 7001]
	5.120.30	"Test Battery" consists of WET testing of all test species for the specified test. For chronic WET testing, all test species includes Fathead minnows and ceriodaphnia dubia. [Minn. R. 7001]

	5.120.31	The discharge of treated wastewater from the WWTS must not cause a violation of state water quality standards. [Minn. R. 7001.0170, Minn. Stat. ch. 115.03]
	5.120.32	The MPCA may modify this permit, require corrective actions, or take other actions if it determines that a discharge authorized by this permit is causing or contributing to a violation of water quality standards. [Minn. R. 7001.0170, Minn. Stat. ch. 115.03]
SD002	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.121.1	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)]
	5.121.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.121.3	Flow measurements for Station SD002 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Unnamed Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.121.4	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)]
SD003	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.122.1	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)]
	5.122.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.122.3	Flow measurements for Station SD003 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Unnamed Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.122.4	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)]
SD004	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.123.1	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)]
	5.123.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.123.3	Flow measurements for Station SD004 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.123.4	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)]

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SD005	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.124.1	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)]
	5.124.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.124.3	Flow measurements for Station SD005 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.124.4	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)]
SD006	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.125.1	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)]
	5.125.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.125.3	Flow measurements for Station SD006 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.125.4	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)]
SD007	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.126.1	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)]
	5.126.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.126.3	Flow measurements for Station SD007 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.126.4	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)]
SD008	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.127.1	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)]
	5.127.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.127.3	Flow measurements for Station SD008 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.127.4	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)]
SD009	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.128.1	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)]
	5.128.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.128.3	Flow measurements for Station SD009 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.128.4	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)]
SD010	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.129.1	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)]
	5.129.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.129.3	Flow measurements for Station SD010 must be taken at a point representative of the discharge from the WWTS to the headwater wetlands of Trimble Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.129.4	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)]
SD011	Effluent To Surface Water	
		Facility Specific Limit and Monitoring Requirements
	5.130.1	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)]
	5.130.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.130.3	Flow measurements for Station SD011 must be taken at a point representative of the discharge from the WWTS to the headwaters of Second Creek. [Minn. R. 7001.0150, Subp. 2(B)]
	5.130.4	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)]
SW003	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.131.1	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)]
	5.131.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.131.3	Samples for Station SW003 must be taken in the Unnamed Creek downstream of the FTB Seepage Containment System at the PM-11 monitoring location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.131.4	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)]
SW005	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.132.1	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)]
	5.132.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.132.3	Samples for Station SW005 must be taken in the Embarrass River downstream of the FTB at the PM-13 monitoring location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.132.4	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)]
SW006	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.133.1	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)]
	5.133.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.133.3	Samples for Station SW006 must be taken in Trimble Creek downstream of the FTB Seepage Containment System at the TC-1a monitoring location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.133.4	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)]
SW007	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements

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	5.134.1	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)]
	5.134.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.134.3	Samples for Station SW007 must be taken in Unnamed (Mud Lake) Creek downstream of the drainage swale and the FTB Seepage Containment System at the MLC-1 monitoring location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.134.4	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)]
SW008	Stream/River/Ditch, Upstream	
		Facility Specific Limit and Monitoring Requirements
	5.135.1	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)]
	5.135.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.135.3	Samples for Station SW008 must be taken in the Embarrass River upstream of the FTB and downstream of Area 5 at the PM-12.2 monitoring location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.135.4	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)]
SW020	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.136.1	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)]
	5.136.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.136.3	Samples for Station SW020 must be taken in Second (Knox) Creek downstream of the FTB South Seepage Management System at monitoring location PM-7. [Minn. R. 7001.0150, Subp. 2(B)]
	5.136.4	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)]
SW402	Stream/River/Ditch, Upstream	
		Facility Specific Limit and Monitoring Requirements
	5.137.1	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)]
	5.137.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.137.3	Samples for Station SW402 shall be taken in the Partridge River upstream of the Mine Site at monitoring location PM-2. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.137.4	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)]
SW407	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.138.1	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)]
	5.138.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.138.3	Samples for Station SW407 must be taken in Wetlegs Creek downstream of the Transportation and Utility Corridors at monitoring location WL-1. [Minn. R. 7001.0150, Subp. 2(B)]
	5.138.4	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)]
SW408	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.139.1	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)]
	5.139.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.139.3	Samples for Station SW408 must be taken in Longnose Creek downstream of the Transportation and Utility Corridors at monitoring location LN-1. [Minn. R. 7001.0150, Subp. 2(B)]
	5.139.4	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)]
SW409	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.140.1	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)]
	5.140.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.140.3	Samples for Station SW409 must be taken in Wyman Creek downstream of the Transportation and Utility Corridors at monitoring location PM-5. [Minn. R. 7001.0150, Subp. 2(B)]
	5.140.4	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)]

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SW410	Stream/River/Ditch, Upstream	
		Facility Specific Limit and Monitoring Requirements
	5.141.1	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)]
	5.141.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.141.3	Samples for Station SW410 must be taken in Wyman Creek upstream of the Transportation and Utility Corridors at monitoring location PM-6. [Minn. R. 7001.0150, Subp. 2(B)]
	5.141.4	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)]
SW411	Stream/River/Ditch, Upstream	
		Facility Specific Limit and Monitoring Requirements
	5.142.1	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)]
	5.142.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.142.3	Samples for Station SW411 must be taken in the Longnose Creek upstream of the Transportation and Utility Corridors at monitoring location LN-2. [Minn. R. 7001.0150, Subp. 2(B)]
	5.142.4	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)]
SW412	Stream/River/Ditch, Upstream	
		Facility Specific Limit and Monitoring Requirements
	5.143.1	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)]
	5.143.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.143.3	Samples for Station SW412 must be taken in the Wetlegs Creek upstream of the Transportation and Utility Corridors at monitoring location WL-2. [Minn. R. 7001.0150, Subp. 2(B)]
	5.143.4	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)]
SW413	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.144.1	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)]
	5.144.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.144.3	Samples for Station SW413 must be taken in the Partridge River upstream of the South Branch and downstream of Unnamed Creek at monitoring location SW004c. [Minn. R. 7001.0150, Subp. 2(B)]
	5.144.4	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)]
SW414	Stream/River/Ditch, Downstream	
		Facility Specific Limit and Monitoring Requirements
	5.145.1	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)]
	5.145.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.145.3	Samples for Station SW414 must be taken in the West Pit Outlet Creek downstream of the Transportation Utility Corridor at monitoring location WP-1. [Minn. R. 7001.0150, Subp. 2(B)]
	5.145.4	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)]
WS001	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.146.1	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)]
	5.146.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.146.3	Samples for Station WS001 must be taken at a point representative of the waste stream in the FTB Pond and must be taken at the FTB Pond Intake. [Minn. R. 7001.0150, Subp. 2(B)]
	5.146.4	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)]
WS002	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.147.1	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)]
	5.147.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.147.3	Samples for Station WS002 must be taken at a point representative of the waste stream from the FTB Seepage Containment System and must be taken at the WWTS intake. [Minn. R. 7001.0150, Subp. 2(B)]
	5.147.4	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)]
WS003	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.148.1	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)]
	5.148.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.148.3	Samples for Station WS003 must be taken at a point representative of the waste stream from the FTB South Seepage Management System and must be taken at the WWTS intake. [Minn. R. 7001.0150, Subp. 2(B)]
	5.148.4	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)]
WS004	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.149.1	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)]
	5.149.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.149.3	Samples for Station WS004 must monitor the waste stream in the HRF Pond and must be taken at the HRF Pond intake. [Minn. R. 7001.0150, Subp. 2(B)]
	5.149.4	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)]
WS005	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.150.1	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)]
	5.150.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.150.3	Samples for Station WS005 must monitor the waste stream from the HRF Leakage Collection System and must be representative of the underliner leakage. [Minn. R. 7001.0150, Subp. 2(B)]
	5.150.4	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)]
WS009	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements

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	5.151.1	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)]
	5.151.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.151.3	Samples for Station WS009 must be taken at a point representative of the waste stream from the Sewage Treatment Stabilization Ponds to the FTB Pond. [Minn. R. 7001.0150, Subp. 2(B)]
	5.151.4	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)]
WS015	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.152.1	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)]
	5.152.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.152.3	Samples for Station WS015 must be taken at a point representative of the combined influent to the WWTS from the FTB Seepage Containment System and the FTB South Seepage Management System. [Minn. R. 7001.0150, Subp. 2(B)]
	5.152.4	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)]
WS072	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.153.1	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)]
	5.153.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.153.3	Samples for Station WS072 must be taken at a point representative of the effluent from the mine water chemical precipitation treatment train. [Minn. R. 7001.0150, Subp. 2(B)]
	5.153.4	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)]
WS073	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.154.1	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)]
	5.154.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.154.3	Samples for Station WS073 must be taken at a point representative of the effluent from the mine water membrane filtration treatment train. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.154.4	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)]
WS074	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.155.1	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)]
	5.155.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.155.3	Samples for Station WS074 must monitor the blended effluents from the reverse osmosis and nanofiltration membranes of the tailings basin seepage treatment train, upstream of the effluent stabilization process. [Minn. R. 7001.0150, Subp. 2(B)]
	5.155.4	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)]
WS401	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.156.1	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)]
	5.156.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.156.3	Samples for Station WS401 must be taken at a point representative of mine pit dewatering. [Minn. R. 7001.0150, Subp. 2(B)]
	5.156.4	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)]
WS402	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.157.1	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)]
	5.157.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.157.3	Samples for Station WS402 must be taken at a point representative of mine pit dewatering. [Minn. R. 7001.0150, Subp. 2(B)]
	5.157.4	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)]
WS403	Internal Waste Stream	

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		Facility Specific Limit and Monitoring Requirements
	5.158.1	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)]
	5.158.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.158.3	Samples for Station WS403 must be taken at a point representative of mine pit dewatering. [Minn. R. 7001.0150, Subp. 2(B)]
	5.158.4	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)]
WS404	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.159.1	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)]
	5.159.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.159.3	Samples for Station WS404 must be taken at a point representative of mine pit dewatering. [Minn. R. 7001.0150, Subp. 2(B)]
	5.159.4	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)]
WS411	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.160.1	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)]
	5.160.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.160.3	Samples for Station WS411 must be taken at a point representative of the waste stream from Category 1 Stockpile Groundwater Containment Sump. [Minn. R. 7001.0150, Subp. 2(B)]
	5.160.4	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)]
WS412	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.161.1	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)]
	5.161.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.161.3	Samples for Station WS412 must be taken at a point representative of the waste stream from the Category 1 Stockpile Groundwater Containment Sump. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.161.4	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)]
WS413	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.162.1	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)]
	5.162.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.162.3	Samples for Station WS413 must be representative of the waste stream at the OSLA runoff and must be taken at the OSLA Pond. [Minn. R. 7001.0150, Subp. 2(B)]
	5.162.4	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)]
WS414	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.163.1	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)]
	5.163.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.163.3	Samples for Station WS414 must be taken at the Construction Mine Water Basin and must be representative of the combined flow of construction mine water and OSLA runoff that is routed to the FTB via the Construction Mine Water Pipeline. [Minn. R. 7001.0150, Subp. 2(B)]
	5.163.4	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)]
WS415	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.164.1	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)]
	5.164.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.164.3	Samples for Station WS415 must be taken at the Low Concentration Equalization Basins that goes to the WWTS via the Low Concentration Pipeline. [Minn. R. 7001.0150, Subp. 2(B)]
	5.164.4	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)]

WS416	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.165.1	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)]
	5.165.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.165.3	Samples for Station WS416 must be taken at the High Concentration Equalization Basin that goes to the WWTS via the High Concentration Pipeline. [Minn. R. 7001.0150, Subp. 2(B)]
	5.165.4	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)]
WS421	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.166.1	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)]
	5.166.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.166.3	Samples for Station WS421 must be taken at a point representative of the waste stream collected from the Category 2/3 Waste Rock Stockpiles Liners. [Minn. R. 7001.0150, Subp. 2(B)]
	5.166.4	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)]
WS422	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.167.1	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)]
	5.167.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.167.3	Samples for Station WS422 must be taken at a point representative of the waste stream collected from the Category 2/3 Waste Rock Stockpiles Liners. [Minn. R. 7001.0150, Subp. 2(B)]
	5.167.4	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)]
WS423	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.168.1	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)]
	5.168.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]

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	5.168.3	Samples for Station WS423 must be taken at a point representative of the waste stream collected from the Category 2/3 Waste Rock Stockpiles Liners. [Minn. R. 7001.0150, Subp. 2(B)]
	5.168.4	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)]
WS424	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.169.1	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)]
	5.169.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.169.3	Samples for Station WS424 must be taken at a point representative of the waste stream collected from the Category 4 Waste Rock Stockpile Liner. [Minn. R. 7001.0150, Subp. 2(B)]
	5.169.4	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)]
WS425	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	5.170.1	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)]
	5.170.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.170.3	Samples for Station WS425 must be taken at a point representative of the waste stream from the OSP Liner. [Minn. R. 7001.0150, Subp. 2(B)]
	5.170.4	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)]
		Groundwater Station General Requirements
	5.171.1	Analysis Requirements. [Minn. R. 7001]
	5.171.2	Dissolved Oxygen, pH, and Specific Conductance analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
	5.171.3	Monitoring Wells. [Minn. R. 7001]
	5.171.4	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. [Minn. R. 4725]

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	5.171.5	The Permittee shall submit a detailed monitoring well log for each monitoring well at the facility and a detailed US Geological Survey topographical map identifying the location of each well. [Minn. R. 7001]
	5.171.6	Each monitoring well shall be clearly numbered on the outside of the well with either indelible paint or an inscribed number. [Minn. R. 7001]
	5.171.7	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 website at: http://www.pca.state.mn.us. [Minn. R. 7001]
	5.171.8	Grab samples shall be collected at all ground water monitoring points (lysimeters or wells) after stabilization tests are conducted. [Minn. R. 7001]
	5.171.9	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]
	5.171.10	Temperature, specific conductance and pH shall be reported as the final field measurements from well stabilization. [Minn. R. 7001]
		Surface Discharge Station General Requirements
	5.172.11	Analysis Requirements. [Minn. R. 7001]
	5.172.12	Dissolved Oxygen, pH, and Specific Conductance analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
	5.172.13	Representative Samples. [Minn. R. 7001]
	5.172.14	Samples and measurements required by this permit shall be representative of the monitored activity. [Minn. R. 7001]
	5.172.15	Surface Discharge Prohibitions. [Minn. R. 7001]
	5.172.16	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.172.17	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
	5.172.18	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.172.19	Winter Sampling Conditions. [Minn. R. 7001]
	5.172.20	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
	5.172.21	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
	5.172.22	Permittees are required to sample for TSS (grab sample) at the same time that Total/Dissolved Mercury samples are taken. Total Mercury, Dissolved Mercury, and TSS (grab sample) samples shall be collected via grab samples. All results shall be recorded on DMRs. [Minn. R. 7001]
	5.172.23	Total and Dissolved Mercury samples shall be analyzed using the most current versions of EPA Method 1631 with clean techniques method 1669. Should another mercury analytical method that has a reportable quantitation level of <0.5 ng/L that allows for low-level sample characterization be approved by the EPA and certified by an MPCA recognized accreditation body, the method may be used in place of 1631/1669. [Minn. R. 7001]
	5.172.24	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]

	5.172.25	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
		Surface Water Station General Requirements
	5.173.26	Analysis Requirements. [Minn. R. 7001]
	5.173.27	Dissolved Oxygen, pH, and Specific Conductance analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
	5.173.28	Sampling Protocol. [Minn. R. 7001]
	5.173.29	Samples shall be taken at mid-stream, mid-depth. Record location, date, time and results for each sample on the supplemental Discharge Monitoring Report form. [Minn. R. 7001]
	5.173.30	All instruments used for field measurements shall be maintained and calibrated to insure accuracy of measurements. [Minn. R. 7001]
	5.173.31	Sample water shall be preserved according to lab instructions and delivered to a certified lab within the maximum holding times. [Minn. R. 7001]
	5.173.32	Winter Sampling Conditions. [Minn. R. 7001]
	5.173.33	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No Flow" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
		Waste Stream Station General Requirements
	5.174.34	Analysis Requirements. [Minn. R. 7001]
	5.174.35	Dissolved Oxygen, pH, and Specific Conductance analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053.0155]
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	5.174.38	THIS SPACE INTENTIONALLY LEFT BLANK
	5.174.39	Representative Samples. [Minn. R. 7001]
	5.174.40	Grab and composite samples shall be collected at a point representative of total influent flow to the system. [Minn. R. 7001]
		Special Requirements
	5.175.41	**40 CFR 440 Allowable Discharge [40 CFR 440.104(b)(2)(i)]**
	5.175.42	The Permittee is authorized to discharge through Surface Discharge Stations SD002-SD011 an amount no more than the annual net precipitation from the facility plus the annual mine drainage during each calendar year. [Minn. R. 7001]
	5.175.43	Mine drainage is an allowable discharge as defined in 40 CFR 440.132(h) and is included in the allowable discharge volume. Mine drainage must not be directly discharged at the Mine Site, but an amount of treated mine water may be discharged through stations SD002-SD011 equal to the amount of the annual mine drainage. [Minn. R. 7001]
	5.175.44	Allowable discharge must be determined as follows: Da = Y + Dm Where: Da = Allowable discharge

		Y = Annual net precipitation Dm = Mine drainage. [Minn. R. 7001]
	5.175.45	The annual net precipitation must be determined as follows: Y = (Af x P) - (At x E) where: Y = annual net precipitation Af = area of the Tailings Basin (FTB + Cell 2W), plus the drainage area contributing surface runoff to the Tailings Basin and the FTB seepage capture systems. P = total annual precipitation At = open water area of the Tailings Basin E = annual reservoir evaporation. [Minn. R. 7001]
	5.175.46	The total annual precipitation and the annual reservoir evaporation must be determined from either meteorological data collected by the Permittee at the Project site, or from the local precipitation values estimated from data collected at Hoyt Lakes area measurement stations and "Mean Annual Lake Evaporation" values shown in the "Climatic Atlas of the United States" published by the U.S. Department of Commerce. [Minn. R. 7001]
	5.175.47	The annual mine drainage (Dm) must be determined as the sum of the following flows: a. OSLA runoff and construction mine water (WS414) b. Mine pit dewatering and other flows routed to the Low Concentration Equalization Basin (WS415) c. Waste Rock Stockpile and Ore Surge Pile Drainage and other flows routed to the High Concentration Equalization Basin (WS416). [Minn. R. 7001]
	5.175.48	If the Permittee does not discharge through outfalls SD002 - SD011 the volume equivalent to the allowable annual discharge volume in a given calendar year, then the Permittee may carry over the difference between the allowable annual discharge volume and the actual volume discharged as a credit to the allowable annual discharge volume for the following calendar year. Such credit may be carried over only to that calendar year immediately following the year in which not all of the allowable annual discharge volume was utilized. In no case shall the volume of water discharged in a calendar year exceed 4060 million gallons. [Minn. R. 7001]
	5.175.49	The total precipitation and total evaporation records must be reported in the Comprehensive Annual Performance Evaluation Report described in Parts 5.181.217 to 5.181.218 of this permit. The Comprehensive Annual Performance Evaluation Report must also include the net annual precipitation volume and the annual mine drainage volume compared to the volume of water discharged through Outfalls SD002 - SD011. [Minn. R. 7001.0150, Subp. 3(H)]
	5.175.50	**No Unauthorized Discharge to Surface Waters - Plant Site. [Minn. R. 7001]**
	5.175.51	Direct discharge to surface waters from the FTB pond and the FTB Seepage Containment System is prohibited. All water collected from the FTB Seepage Containment System must either be pumped back to the FTB or routed to the WWTS. [Minn. R. 7001]
	5.175.52	Direct discharge to surface waters from the South Seepage Management System to former Cliffs Erie outfall SD026 is prohibited. All water collected from the South Seepage Management System must either be pumped back to the FTB or routed to the WWTS. [Minn. R. 7001]
	5.175.53	**FTB Seepage Containment Systems - Construction. [Minn. R. 7001]**
	5.175.54	The Permittee shall construct the FTB Seepage Containment System to include a low permeability cutoff wall keyed into bedrock, a subgrade collection and sump system

		on the inward side of the cutoff wall, and pumping capable of removing collected water to the WWTS and/or the FTB. The cutoff wall shall be no less than one foot in thickness and have a maximum permeability of 1x10-6 cm/sec, or equivalent as approved by MPCA. The FTB Seepage Containment System shall be constructed and operated so as to maintain an inward hydraulic gradient across the cutoff wall. [Minn. R. 7001]
	5.175.55	Proposed design changes to the FTB Seepage Containment System prior to construction, or at any time thereafter, must be submitted to MPCA for review and approval if the changes will alter the basic design described above. In accordance with Minn. R. 7001.0170, design changes may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.175.56	The Permittee shall construct the FTB South Seepage Management System as an upgrade or replacement of the existing temporary surface seepage pumpback system located upstream of former Cliffs Erie outfall SD026. The South Seepage Management System shall be designed, constructed, and operated to collect seepage from the FTB in this area such that there will be no direct discharge of seepage to surface waters. [Minn. R. 7001]
	5.175.57	The Permittee shall submit the following documents for the FTB Seepage Containment System and the FTB South Seepage Management System to the MPCA within one year after the date of initiation of operation: a. A signed certification by a professional engineer registered in the State of Minnesota stating that the seepage capture system, as constructed, meets the design performance standards. b. A certificate of completion of an operation and maintenance manual. At a minimum this must include a detailed discussion of operational controls, maintenance, sampling and analysis, and problem mitigation. This manual must be maintained and updated regularly as needed and reviewed at least annually and made available to the MPCA staff upon request. c. As-built drawings and QA/QC test results must be submitted to the MPCA in the format outlined in the MPCA fact sheet titled: "Wastewater Treatment Facility Construction Record Documents: As-Built Submittal Requirements." The document is located on the MPCA web page at: http://www.pca.state.mn.us/sites/default/files/wq-wwtp5-87.pdf. [Minn. R. 7001]
	5.175.58	The Permittee shall submit specifications : Due 365 calendar days after Initiation of Operation of FTB System referenced in part 5.175.57. [Minn. R. 7001]
	5.175.59	**FTB Seepage Containment System - Water Management during Construction. [Minn. R. 7001]**
	5.175.60	The Permittee is prohibited from depositing nonferrous tailings in the FTB until the FTB Seepage Containment System along the northern, northwestern, and western sides of the FTB is fully constructed and operating. [Minn. R. 7001]
	5.175.61	The Permittee shall not merge Cells 2E and 1E until the portion of the FTB Seepage Containment System on the eastern side of the FTB is fully constructed and operating. [Minn. R. 7001]
	5.175.62	A segment of the FTB Seepage Containment System (i.e., the northern, northwestern, and western segment or the eastern segment) is considered to be fully constructed and operating when construction of that segment is complete and the Permittee has demonstrated that the segment is capable of collecting and routing FTB seepage for treatment at the WWTS or for temporary storage in the FTB. [Minn. R. 7001]
	5.175.63	The Permittee is required to obtain coverage under, and follow the requirements of the Minnesota General Construction Stormwater permit for construction of the FTB

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		Seepage Containment System. Water encountered during construction of the FTB Seepage Containment System must be managed as construction stormwater. [Minn. R. 7001]
	5.175.64	The Permittee shall notify MPCA : Due 14 calendar days after Construction Complete Date for FTB System. [Minn. R. 7001]
	5.175.65	The Permittee shall notify MPCA : Due 14 calendar days after Initiation of Operation of FTB System and introduction of nonferrous tailings to the FTB. [Minn. R. 7001]
	5.175.66	**FTB Seepage Containment System - Operation. [Minn. R. 7001]**
	5.175.67	The Permittee shall maintain a system of paired monitoring wells and paired piezometers, with one well or piezometer located along the exterior side of the containment system and one located along the interior side at the FTB Seepage Containment System. [Minn. R. 7001]
	5.175.68	The Permittee shall maintain an inward hydraulic gradient across the FTB Seepage Containment System as determined from water level measurements from the paired monitoring wells and piezometers. [Minn. R. 7001]
	5.175.69	If a decrease in pumping rate occurs, or if monitoring detects an outward hydraulic gradient in the well/piezometer system, the Permittee shall document the decrease in pumping rate on the monthly DMR and shall immediately commence mitigation measures which include: a. Sampling of the affected paired monitoring wells/piezometers once per week for three weeks for water level, total sulfate (as SO4), TDS, specific conductance and total chloride b. Inspection of the containment system c. Assessment of quantity of seepage released, if any d. Pumping from interior wells (FTB side) of the containment system as needed to reestablish an inward gradient e. Removal of ponded water on the inward side (FTB side) of the containment system as needed f. Timely replacement, repair or supplementation of pipes and/or pumps as needed g. Expansion, upgrade or repair of the cutoff wall as needed h. Implementation of other Agency approved adaptive management or mitigation measures, as appropriate. Adaptive management or mitigation measures may include those identified above. All proposed adaptive management or mitigation measures are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, adaptive management or mitigation measures may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.175.70	If an inward hydraulic gradient is re-established within 14-days following the detection of an outward gradient, the detection of an outward gradient shall not be considered a violation of the permit. In no case, however, is an overflow from the FTB Seepage Containment System that results in a direct discharge to surface waters authorized. [Minn. R. 7001]
	5.175.71	If mitigation is required under Part 5.175.69, within 30 days following the resumption of an inward hydraulic gradient across paired wells/piezometers, the Permittee shall submit a Seepage Containment System Corrective Action Evaluation Report. The Corrective Action Evaluation Report must include, at a minimum:

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		a. Trend and intrawell two-sample testing results b. Evaluation of potential causes of the change in groundwater flow and pumping rates c. Identification of steps to prevent the outward hydraulic gradient from reoccurring. [Minn. R. 7001]
	5.175.72	**FTB Seepage Containment System & South Seepage Management System - System Redundancy. [Minn. R. 7001]**
	5.175.73	The Permittee shall maintain on site an inventory of essential spare or replacement components for the FTB Seepage Containment System and the South Seepage Management System that can be utilized to avoid or minimize downtime in the event of system malfunction. Essential components include, at a minimum, redundant pumping capacity, spare piping and other replacement parts needed to restore operation in the shortest time possible and to prevent an unauthorized discharge. In lieu of maintaining spare components on site, the Permittee may provide evidence in the Annual Comprehensive Performance Evaluation Report of confirmed local/regional availability of essential spare or replacement parts that can be mobilized to the site within a 48-hour period of such need being identified. [Minn. R. 7001]
	5.175.74	**No Unauthorized Discharge to Surface Waters - Mine Site. [Minn. R. 7001]**
	5.175.75	The Permittee shall not directly discharge any mine water or other process wastewater from the Mine Site to surface waters. All mine water or other process wastewater from the Mine Site must be routed to the Equalization Basins and pumped to the Plant Site for treatment or storage in the FTB. [Minn. R. 7001]
	5.175.76	The Permittee shall perform routine inspection and maintenance on all parts of the infrastructure at the Mine Site to ensure that a direct discharge of any mine water or other process wastewater to surface waters does not occur. [Minn. R. 7001]
	5.175.77	**Category 1 Waste Rock Stockpile Groundwater Containment System - Construction. [Minn. R. 7001]**
	5.175.78	The Permittee shall construct the Category 1 Waste Rock Stockpile Groundwater Containment System to include a low permeability cutoff wall keyed into bedrock, a subgrade collection and sump system on the inward side of the cutoff wall, and pumping capable of removing collected water to the Equalization Basins for subsequent treatment at the WWTS. The cutoff wall shall be no less than two feet in thickness and have a maximum permeability of 1x10-5 cm/sec, or equivalent as approved by MPCA. The FTB Seepage Containment System shall be constructed and operated so as to maintain an inward hydraulic gradient across the cutoff wall. [Minn. R. 7001]
	5.175.79	Proposed design changes to the Category 1 Waste Rock Stockpile Groundwater Containment System prior to construction, or at any time thereafter, must be submitted to MPCA for review and approval if the changes will alter the basic design described above. In accordance with Minn. R. 7001.0170, design changes may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.175.80	The Permittee shall submit the following documents for the Category 1 Waste Rock Stockpile Groundwater Containment System to the MPCA within one year after the date of completion of construction: a. A signed certification by a professional engineer registered in the State of Minnesota stating that the containment system, as constructed, meets the design

		performance standards. b. A certificate of completion of an operation and maintenance manual. At a minimum, this must include a detailed discussion of operational controls, maintenance, sampling and analysis, and problem mitigation, This manual must be maintained and updated regularly as needed and reviewed at least annually and made available to the MPCA staff upon request. c. As-built drawings and QA/QC test results must be submitted to the MPCA in the format outlined in the MPCA fact sheet titled: "Wastewater Treatment Facility Construction Record Documents: As-Built Submittal Requirements." The document is located on the MPCA web page at: http://www.pca.state.mn.us/sites/default/files/wq-wwtp5-87.pdf. [Minn. R. 7001]
	5.175.81	The Permittee shall submit specifications : Due 365 calendar days after Construction Complete Date of Category 1 Waste Rock Stockpile Groundwater Containment System referenced in part 5.175.80. [Minn. R. 7001]
	5.175.82	**Category 1 Waste Rock Stockpile Groundwater Containment System - Operation. [Minn. R. 7001]**
	5.175.83	All water collected from the Category 1 Waste Rock Stockpile must be collected by the Category 1 Stockpile Groundwater Containment System and routed to the WWTS, with the exception of stormwater from the reclaimed portions of the stockpile. The Permittee shall maintain the following at the Category 1 Waste Rock Stockpile: a. A groundwater containment system consisting of a low-permeability hydraulic barrier (cutoff wall) combined with an interior drainage collection system. The containment system shall be constructed incrementally as planned until the completed stockpile footprint is fully surrounded by the containment system. b. A system of alternating paired monitoring wells and paired piezometers along the containment system with one well or piezometer located along the exterior side of the containment system and one located along the interior side. [Minn. R. 7001]
	5.175.84	The Permittee shall maintain an inward hydraulic gradient across the Category 1 Waste Rock Stockpile Groundwater Containment System as determined by comparing water level measurements from the paired monitoring wells and piezometers. . If monitoring detects an outward hydraulic gradient in the well/piezometer system, the Permittee shall immediately commence mitigation measures which include: a. Sampling of the affected paired monitoring wells/piezometers once per week for three weeks for water level, total sulfate (as SO4), TDS, specific conductance and total chloride b. Inspection of the containment system c. Assessment of quantity of seepage released, if any d. Pumping from interior wells (stockpile side) of the containment system as needed e. Removal of ponded water on the inward side (stockpile side) of the containment system as needed f. Timely repair of pipes and/or pumps as needed g. Expansion or repair of the cutoff wall as needed

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		h. Implementation of other Agency approved adaptive management or mitigation measures, as appropriate. Adaptive management or mitigation measures may include those identified above. All proposed adaptive management or mitigation measures are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, adaptive management or mitigation measures may require a modification of the permit, including a public notice of the proposed modifications.
	5.175.85	If an inward hydraulic gradient is re-established within 14-days following the detection of an outward gradient, the detection of an outward gradient shall not be considered a violation of the permit. In no case, however, is an overflow from the Groundwater Containment System that results in a direct discharge to surface waters authorized. To ensure that an unauthorized discharge does not occur under an extreme rainfall event, water levels from the paired piezometers and monitoring wells shall be monitored weekly for three weeks following a rainfall event equal to or greater than the 100-year, 24 hour storm event. [Minn. R. 7001]
	5.175.86	**Category 2/3 Waste Rock Stockpile, Category 4 Waste Rock Stockpile, OSLA, and Ore Surge Pile**. [Minn. R. 7001]
	5.175.87	The Permittee shall construct an engineered liner system for the Category 2/3 Waste Rock Stockpile that includes a foundation, an underdrain/sump system (if needed to address existing groundwater conditions), a composite liner barrier with a maximum permeability of $1x10^{-5}$ cm/sec for the soil component of the liner, and an overliner drainage layer with mine water sumps, or equivalent system as approved by MPCA. [Minn. R. 7001]
	5.175.88	The Permittee shall construct engineered liner systems for the Category 4 Waste Rock Stockpile and Ore Surge Pile that includes a foundation, an underdrain/sump system (if needed to address existing groundwater conditions), a composite liner barrier with a maximum permeability of $1x10^{-6}$ cm/sec for the soil component of the liner, and an overliner drainage layer with mine water sumps, or equivalent system as approved by MPCA. [Minn. R. 7001]
	5.175.89	The Permittee shall submit the following documents for the Category 2/3 and Category 4 Waste Rock Stockpiles and the Ore Surge Pile to the MPCA within one year after the date of completion of installation: a. A signed certification by a professional engineer registered in the State of Minnesota stating that the stockpile liner system, as constructed, meets the design performance standards. b. A certificate of completion of an operation and maintenance manual. At a minimum this must include a detailed discussion of operational controls, maintenance, sampling and analysis, and problem mitigation. This manual must be maintained and updated regularly and made available to the MPCA staff upon request. c. As-built drawings and QA/QC test results must be submitted to the MPCA in the format outlined in the MPCA fact sheet titled: "Wastewater Treatment Facility Construction Record Documents: As-Built Submittal Requirements." The document is located on the MPCA web page at: http://www.pca.state.mn.us/sites/default/files/wq-wwtp5-87.pdf. [Minn. R. 7001]
	5.175.90	The Permittee shall operate and maintain its engineering controls associated with these infrastructure facilities to ensure there is no direct discharge of mine water or other process wastewater to surface waters from the Mine Site. These engineering controls may include, among other things, liner systems, sumps, underdrains (if used), ponds, pumps, and pipelines. [Minn. R. 7001]

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	5.175.91	If the Permittee discovers the sump systems at the Category 2/3 Waste Rock Stockpile, Category 4 Waste Rock Stockpile, or Ore Surge Pile has any leakage, the Permittee shall capture the leakage and route it to the WWTS. [Minn. R. 7001]
		Mercury Minimization Plan (Lake Superior Basin)
	5.176.92	The Permittee is required to complete and submit a Mercury Pollutant Minimization Plan (MMP) to the MPCA as detailed in this section. If the Permittee has previously submitted a MMP, it shall update its MMP and submit the updated MMP to the MPCA. The purpose of the MMP is to evaluate collection and treatment systems to determine possible sources of mercury as well as potential mercury reduction options. Guidelines for developing a MMP are detailed in this section. [Minn. R. 7001]
	5.176.93	The specific mercury monitoring requirements are detailed in the limits and monitoring section of this permit. Information gained through the MMP process can be used to reduce mercury concentrations. As part of its mercury control strategy, the Permittee should consider selecting activities based on the potential of those activities to reduce mercury loadings to the wastewater treatment facility. [Minn. R. 7001]
	5.176.94	The Permittee shall submit a mercury pollutant minimization plan : Due by 180 days after permit issuance. [Minn. R. 7001]
	5.176.95	At a minimum, the MMP shall include the following: a. A summary of mercury influent and effluent concentrations using the most recent five years of monitoring data, if available. b. Identification of existing and potential sources of mercury concentrations and/or loading to the WWTS. As appropriate for your facility, you should consider influent mercury sources, such as stormwater inputs, ground water inputs, lift station components, and waste streams contributing to the WWTS. c. An evaluation of potential WWTS operations to determine those operating procedures that maximize mercury removal. d. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]
	5.176.96	The Permittee shall submit an annual mercury pollutant minimization plan (MMP) update : Due annually, by the 1st of March following MPCA approval of the MMP. Submit the MMP to the MPCA Water Quality Submittals Center. [Minn. R. 7052]
	5.176.97	The annual report shall include, at a minimum: a. All minimization program monitoring results for the year. b. A list of potential sources of mercury to the WWTS c. A summary of all actions taken to meet the operating limit for mercury. d. Any updates of the mercury minimization strategy. [Minn. R. 7052]
		Industrial Process Wastewater
	5.177.98	**Prohibited Discharges. [Minn. R. 7001]**
	5.177.99	This permit does not authorize the discharge of wash water, scrubber water, spills, oil, hazardous substances or equipment/vehicle cleaning and maintenance wastewaters to ditches, wetlands, or other surface waters of the state. [Minn. R. 7001.1090, Subp. 1(A)]

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	5.177.100	The Permittee shall prevent the routing of pollutants from the facility to a municipal wastewater treatment system in any manner unless authorized by the pretreatment standards of the MPCA and the municipal authority. [Minn. R. 7001.1090, Subp. 1(A)]
	5.177.101	The Permittee shall not transport pollutants to a municipal wastewater treatment system that will interfere with the operation of the treatment system or cause pass-through violations of effluent limits or water quality standards. [Minn. R. 7049.140, Subp. 2]
	5.177.102	**Toxic Substance Reporting. [Minn. R. 7001]**
	5.177.103	The Permittee shall notify the MPCA immediately of any knowledge or reason to believe that an activity has occurred that would result in the discharge of a toxic pollutant listed in Minnesota Rules, pt. 7001.1060, subp. 4 to 10 or listed below that is not limited in the permit, if the discharge of this toxic pollutant has exceeded or is expected to exceed the following levels: a. for acrolein and acrylonitrile, 200 ug/L; b. for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol, 500 ug/L; c. for antimony, 1mg/L; d. for any other toxic pollutant listed in Minnesota Rules, pt. 7001.1060, subp. 4 to 10, 100 ug/L; or e. five times the maximum concentration value identified and reported for that pollutant in the permit application. [Minn. R. 7001.1090, Subp. 2]
	5.177.104	The Permittee shall notify the MPCA immediately if the Permittee has begun or expects to begin to use or manufacture as an intermediate or final by-product a toxic pollutant that was not reported in the permit application under Minnesota Rules, pt. 7001.1050, subp. 2.J. [Minn. R. 7001.1050, Subp. 2(J)]
	5.177.105	**High-Concentration, Low-Concentration and Construction Mine Water Pipelines (Mine to Plant Pipelines, MPP). [Minn. R. 7001]**
	5.177.106	This permit does not authorize discharges to surface waters from the High-Concentration, Low-Concentration and Construction Mine Water Pipelines. [Minn. R. 7001.1090, Subp. 1(A)]
	5.177.107	The High-Concentration, Low-Concentration, and Construction Mine Water pipelines are designed, constructed, and operated to collect and transport mine drainage from the Mine Site to the Plant Site mine water treatment system and the FTB. The Permittee shall make every effort to prevent and contain any breaks in or spills from the pipelines that run along the Transportation and Utility Corridors from the Mine Site to the Plant Site. The Permittee shall comply with the requirements of the Noncompliance, Upset Defense and Duty to Notify and Avoid Pollution sections contained in this permit should a pipeline break or spill occur. [Minn. R. 7001.150, Subp. 2]
	5.177.108	**Polychlorinated Biphenyls (PCBs). [Minn. R. 7001]**
	5.177.109	PCBs, including but not limited to those used in electrical transformers and capacitors, shall not be discharged or released to the environment. [Minn. R. 7001.150, Subp. 2]
	5.177.110	**Application for Permit Reissuance. [Minn. R. 7001, Minn. R. 7001]**
	5.177.111	The permit application shall include analytical data as part of the application for reissuance of this permit. These analyses shall be done on individual samples taken during the twelve-month period before the reissuance application is submitted. [Minn. R. 7001.50]
	5.177.112	The permit application must include analytical data for at least the following parameters at monitoring station SD001. Analysis of all parameters must comply with their specific 40 CFR Part 136 analytical methodologies or any updates to those methodologies. The reporting limits must meet the minimum levels as defined by this permit and all state and federal regulations.

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		a. Biochemical oxygen demand, chemical oxygen demand, total organic carbon, gasoline range organics, diesel range organics, fecal coliform, ammonia, temperature; b. Color, fluoride, nitrate-nitrite (as nitrogen), total organic nitrogen, oil and grease, total phosphorus, chloride, sulfate, sulfide (as sulfur), surfactants, bicarbonates, alkalinity, total salinity, total dissolved solids, specific conductance; c. Aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silver, sodium, thallium, tin, titanium, vanadium, zinc (all in total form) according to 40 CFR Part 136.3; d. Total mercury using EPA Method 1631; e. Gross alpha particles, radium-226, radium-228, radon-222, uranium; f. PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260; and g. a scan of constituents using EPA Methods 624 and 625, in 40 CFR Part 136. The Permittee shall identify, in addition to those pollutants noted in Methods 624 and 625 (Appendix D, Table II), the concentrations of at least ten of the most abundant constituents of the acid and base/neutral organic fractions shown to be present by peaks on the total ion plots (reconstructed gas chromatograms) within ten percent of the nearest internal standard. Identification must be through the use of U.S. EPA/NIH computerized library of mass spectra, with visual confirmation and potential quantification. [Minn. R. 7001, Minn. R. 7001.50]
	5.177.113	The Permittee shall include, as part of the application for reissuance of this permit: a. a current map of the Tailings Basin, showing the dikes, dams, cells, and current topographic and water level elevations in the basin; b. an updated water balance for the facility; c. an updated Operating Plan for the Tailings Basin for the next five (5) years. [Minn. R. 7001, Minn. R. 7001.50]
		Industrial Pond System – Low Concentration and High Concentration Equalization Basins
	5.178.114	**Authorization. [Minn. R. 7001]**
	5.178.115	This permit does not authorize a direct discharge from the Mine Site Equalization Basins or any other industrial mine water pond system to surface waters. The Mine Site Low Concentration Equalization (LCEQ) Basins and High Concentration Equalization (HCEQ) Basin are authorized to discharge to the WWTS. [Minn. R. 7001]
	5.178.116	The LCEQ Basins and HCEQ Basin shall each be constructed to include a primary barrier system that include a geosynthetic clay layer overlain by a 60 mil HDPE liner, or equivalent as approved by the MPCA. [Minn. R. 7001]
	5.178.117	This permit authorizes the Permittee to manage industrial wastewater in the LCEQ and HCEQ Basins, as described in the Facility Description section of this Permit. This activity is limited by the Limits and Monitoring section of this Permit, as well as the other terms and conditions of this Permit. [Minn. R. 7001]
	5.178.118	The requirements of Parts 5.178.114 through 5.178.143 apply to all components of the permitted LCEQ and HCEQ Basins and associated systems, including but not

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		limited to all related components in the Equalization Basin Area used for collection, containment, storage, and/or treatment; and all related structures, conveyances, and/or appurtenances. [Minn. R. 7001]
	5.178.119	**Low Concentration and High Concentration Equalization Basins Performance Evaluation. [Minn. R. 7001]**
	5.178.120	The Permittee shall submit a report : Due by 180 days prior to permit expiration for the Equalization Basin Performance Evaluation Report. [Minn. R. 7001]
	5.178.121	The Equalization Basin Performance Evaluation Report must include at least the following elements for each of the LCEQ and HCEQ Basins: a. Pond performance data, calculations and graphs for each equalization basin. Pond performance data includes, but is not limited to, desktop water balance data, influent and effluent flow data for the ponds, pond water depth measurements, and capacity/volume use comparisons. b. A certification from a licensed professional engineer with expertise in wastewater structures that the respective basin continues to meet the technical criteria of its original design as required by Part 6.12.9; or, c. If the professional engineer cannot certify that all basins meet the required technical criteria, a Pond Restoration Plan must be submitted for MPCA review and approval, to be completed by a licensed professional engineer with expertise in wastewater structures. The Pond Restoration Plan must include, at minimum, a proposal of corrective actions for the restoration of any basin to meet the technical criteria of its original design, and an implementation schedule for the proposed actions. [Minn. R. 7001]
	5.178.122	**Maintenance of Low Concentration and High Concentration Equalization Basins. [Minn. R. 7001]**
	5.178.123	Liner Performance. Wastewater ponds at the facility shall maintain liner systems that restrict infiltration losses consistent with the technical criteria of the original design as necessary to protect groundwater. [Minn. R. 7001]
	5.178.124	Locational Standards. All of the following locational standards apply to the LCEQ and HCEQ Basins: a. The impoundment must be located entirely above the high water table. A minimum separation of 3 feet (0.9m) between the bottom of the basin liner and the maximum groundwater elevation should be maintained. Where this separation distance is not achievable under natural conditions, an underdrain system may be installed, or an alternative liner design must be approved by the agency. If an underdrain system is used to artificially maintain the separation distance between the liner and groundwater, the Permittee shall conduct quarterly monitoring of discharges from the drain system for total chloride, specific conductance, total sulfate (as SO4), and total dissolved solids. b. The impoundment may not be located within a shoreland or wild and scenic river land use district governed by Minn. R. chapters 6105 and 6120. c. The impoundment may not be located within a wetland. d. The impoundment may not be located within a location where emissions of air pollutants would violate the ambient air quality standards in Minn. R. chapters 7005, 7007, 7009, 7011, 7017, 7019, and 7028 and Minn. R. parts 7023.0100 to 7023.0120.

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		e. The impoundment should not be located in an area which is unsuitable because of topography, geology, hydrology, or soils. [Minn. R. 7001]
	5.178.125	Operating Depth. All of the following apply to the LCEQ and HCEQ Basins: a. At least 3 feet freeboard on all impoundments must be maintained at all times. b. Based on specific facility conditions and upon demonstration of an acceptable alternative, an alternate performance standard may be approved by the MPCA. Specific written authorization by the MPCA must be obtained prior to implementing an alternately approved performance standard in lieu of item a. and/or b. of this part. [Minn. R. 7001]
	5.178.126	An approved riprap cover that meets MPCA's "Riprap Criteria for Stabilization Ponds" (May 1991, or as amended or revised) must be maintained on any earthen LCEQ and HCEQ Basin dikes from one foot above the high water line to the toe of the dike. Where riprap is not used, the Permittee shall maintain a vegetative cover of shallow-rooted, perennial, low- growing grasses that withstand erosion and inundation and that can be mowed. [Minn. R. 7001]
	5.178.127	Plants with long root structures, such as alfalfa, reed canary, willows, poplars, cottonwoods, shrubs, and cattails must not be allowed to grow in the pond or on the dikes, regardless of water depth in the pond. Such harmful vegetative growth must be controlled and such plants removed from the pond and pond structure. [Minn. R. 7001]
	5.178.128	In addition to the requirements of this Permit, the Permittee shall operate and maintain the pond system in general accordance with relevant sections of MPCA's "Stabilization Pond Systems Manual" (2013, or as amended or revised). [Minn. R. 7001]
	5.178.129	The Permittee shall use approved methods to prevent muskrats and other burrowing animals from tunneling and causing damage to the pond liner or dikes. [Minn. R. 7001]
	5.178.130	**Solids Removal of Low Concentration and High Concentration Equalization Basins. [Minn. R. 7001]**
	5.178.131	Prior to the excavation or removal of solids from the LCEQ and HCEG Basins, the Permittee shall implement measures to maintain the integrity of the pond liner during the removal process. [Minn. R. 7001]
	5.178.132	A water balance evaluation must be completed on the LCEQ and HCEQ Basins within seven months of each removal action, the results of which shall be made available for MPCA review at the facility or upon request. The water balance evaluation procedure is described in the MPCA document "Prefill and Water Balance Criteria (Dec. 2010, or as amended or revised)". [Minn. R. 7001]
	5.178.133	Ground water quality monitoring results must be evaluated before and after the excavation or removal to assess the potential impacts of the pond on ground water. Any significant changes shall be reported to the MPCA on the next scheduled Discharge Monitoring Report. [Minn. R. 7001]
	5.178.134	No impact demonstration. The requirements of Parts 5.178.131 and/or 5.178.132 of this permit can be foregone if the Permittee can successfully demonstrate that the removal action will not impact the liner of the LCEQ and HCEQ Basins, or the integrity thereof. To make this demonstration, submit a Removal Plan for MPCA review and approval at least 90 days prior to the anticipated removal date. The Removal Plan should include, at a minimum, a description of the proposed methodology(ies) to be used for the excavation or removal or solids, any proposed deviations from the water balance procedure cited in subpart a, above, and justification that the removal action does not impact the liner of the LCEQ and HCEQ Basins. The requirement to comply with Parts 5.178.132 and/or 5.178.133 may only be waived after written confirmation of approval of the Removal Plan by the Agency. [Minn. R. 7001]

	5.178.135	**Inspection of Low Concentration and High Concentration Equalization Basins. [Minn. R. 7001]**
	5.178.136	The Permittee shall inspect the LCEQ and HCEQ Basin system weekly, and must take measurements of pond water depth, estimate the coverage of aquatic plants, floating mats and ice cover on the surface of the ponds, and note odors, the condition of the dikes and the presence of muskrats. The Permittee shall maintain records of these weekly inspections for the last three (3) years, and submit the results on the Discharge Monitoring Report (DMR) supplemental form. [Minn. R. 7001]
	5.178.137	The Permittee shall maintain daily precipitation records. [Minn. R. 7001]
	5.178.138	The Permittee shall inspect the LCEQ and HCEQ Basins, related conveyances, and appurtenances to the pond system and based on the inspection, shall certify to the MPCA that the LCEQ and HCEQ Basins, related conveyances, and appurtenances maintain structural integrity, complete containment, and compliance with performance standards. [Minn. R. 7001]
	5.178.139	The inspection and certification must be completed by a licensed professional engineer with expertise in wastewater structures. [Minn. R. 7001]
	5.178.140	An inspection report must be prepared by the professional engineer and submitted with the application for permit reissuance and/or every five years, whichever comes first. [Minn. R. 7001]
	5.178.141	If repairs are necessary as a result of the professional engineer's inspection, a detailed proposal for restoration must be submitted to the Agency for review within 180 days of discovery, and at least 60 days prior to initiation of restoration work. [Minn. R. 7001]
	5.178.142	**Low Concentration and High Concentration Equalization Basins - System Redundancy. [Minn. R. 7001]**
	5.178.143	The Permittee shall maintain on site an inventory of essential spare or replacement components for the Equalization Basins that can be utilized to avoid or minimize downtime in the event of system malfunction. Essential components include, but are not limited to, redundant pumping capacity, spare piping and other replacement parts needed to restore operation in the shortest time possible and to prevent an unauthorized discharge. In lieu of maintaining spare components on site, the Permittee may provide evidence in the Annual Comprehensive Performance Evaluation Report of confirmed local/regional availability of essential spare or replacement parts that can be mobilized to the site within a 48-hour period of such need being identified. [Minn. R. 7001]
		Metallic Mining
	5.179.144	**Mine Tailings Basin. [Minn. R. 7001]**
	5.179.145	The Permittee shall conduct a detailed field survey of seepage zones from the perimeter dikes of the FTB and HRF pond during October of each year. [Minn. R. 7001]
	5.179.146	The Permittee shall submit a Dike Seepage Survey Report on January 31 of each calendar year following permit issuance. [Minn. R. 7001]
	5.179.147	The Dike Seepage Survey Report shall include the following information: a. a clearly labeled map indicating the locations of the visible seepage zones; b. the estimated flow rates for the seepage zones; c. the specific conductance, pH and temperature values for the seepage zones; d. a brief description of the changes in the nature of the seepage from previous observations; and e. photographs as needed to document items a. - d. [Minn. R. 7001]

	5.179.148	**Mobile and Rail Equipment Service Areas. [Minn. R. 7001]**
	5.179.149	Mobile equipment and rail equipment service areas in the facility shall be operated in compliance with the following: a. The Permittee shall collect and dispose of locomotive traction sand, degreasing wastes, motor oil, oil filters, oil sorbent pads and booms, transmission fluids, power steering fluids, brake fluids, coolant/antifreeze, radiator flush wastewater and spent solvents in accordance with applicable solid and hazardous waste management rules. These materials shall not be discharged to surface or ground waters of the state. b. The steam-cleaning of mobile equipment and rail equipment, except for limited outdoor cleaning of large drills and shovels, shall be conducted in wash bays that drain to wastewater treatment systems that include the removal of suspended solids and flammable liquids. The only washing of mobile equipment done in outside areas shall be to remove mud and dirt that has accumulated during outside work. c. The Permittee shall not use solvent-based cleaners, such as those available for brake cleaning and degreasing, to wash mobile and rail equipment unless the cleaning fluids are completely contained and not allowed to flow to surface or ground waters of the state. Soaps and detergents used in washing shall be biodegradable. d. Mobile and rail equipment maintenance and repairs shall not be conducted in wash bays. e. Hazardous materials shall not be stored or handled in wash bays. f. The Permittee shall inspect wastewater containment systems regularly, and repair any leaks that are detected immediately. g. If the Permittee discovers that recoverable amounts of petroleum products have entered wastewater containment systems, they shall be recovered immediately and reported to the MPCA. h. Spill cleanup procedures shall be posted in mobile and rail equipment maintenance and repair areas. [Minn. R. 7001]
		Domestic Wastewater (non-POTW)
	5.180.150	**Operator Certification. [Minn. R. 7001]**
	5.180.151	The Permittee shall provide a Class D 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. [Minn. R. 9400]
	5.180.152	The Permittee shall provide the appropriate number of operators with a Type IV certification to be responsible for the land application of biosolids or semisolids from commercial or industrial operations. [Minn. R. 7001]
	5.180.153	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, 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. [Minn. R. 9400]
	5.180.154	The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]
	5.180.155	**Bypass Structures. [Minn. R. 7001]**
	5.180.156	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001]
	5.180.157	**Stabilization Pond Discharge to FTB. [Minn. R. 7001]**

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	5.180.158	Direct discharge to surface waters from the Plant Site Sewage Treatment System is prohibited. All wastewater collected and treated by the Plant Site Sewage Treatment system must be routed to the FTB. [Minn. R. 7001]
	5.180.159	**Sewage Stabilization Pond Requirements. [Minn. R. 7001]**
	5.180.160	The facility has at least 180 days of storage if located south of the 46 degrees 25 north latitude (approximately the latitude of Brainerd) and 210 days of storage for facilities north of this line unless previously approved by the MPCA for something less. If design capacity is less than 180 days and 210 days respectively, the Permittee may show that actual flows allow for 180 days and 210 days respectively. [Minn. R. 7001]
	5.180.161	The collection system and sewage stabilization pond facility may not receive excessive flows that result in regular bypassing from the collection system or facility, or result in regular discharges outside the designated discharge window for that facility. [Minn. R. 7001]
	5.180.162	Pond Discharge Rate. The discharge rate must be limited so as not to disturb the pond bottom sediment in the area of the intake. [Minn. R. 7001]
	5.180.163	Pond Observations. The Permittee shall inspect the pond system weekly, and must take measurements of pond water depth, estimate the coverage of aquatic plants, floating mats and ice cover on the surface of the ponds, and note odors, the condition of the dikes and the presence of rodents. Pond observation reports must be submitted monthly with the eDMRs. The Permittee shall maintain records of these weekly inspections for the last three (3) years, and submit the results on the Supplemental Report Form (SRF). [Minn. R. 7001]
	5.180.164	Unauthorized Releases. For all unauthorized releases that may cause pollution of the waters of the state, the Permittee shall take at least one grab sample of the release for permitted effluent parameters two times per week. If the Permittee believes that measuring these parameters is inappropriate due to known information about the discharge, the monitoring may be modified in consultation with the MPCA. Where there is reason to believe a pollutant other than those limited in the permit is present, the Permittee shall sample for that pollutant in addition to the permitted effluent parameters. [Minn. R. 7001]
		Special Requirements - Mining
	5.181.165	**WWTS - Construction. [Minn. R. 7001]**
	5.181.166	The Permittee shall construct the Wastewater Treatment System to include, a mine water treatment train utilizing lime precipitation and nanofiltration membrane technologies and a FTB seepage treatment train utilizing greensand filtration and a combination of nanofiltration and reverse osmosis membrane technologies. [Minn. R. 7001]
	5.181.167	Proposed design changes to the WWTS prior to construction, or at any time thereafter, must be submitted to MPCA for review and approval if the changes will alter the basic design described above. In accordance with Minn. R. 7001.0170, design changes may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.181.168	The Permittee shall submit the following documents for the Wastewater Treatment System to the MPCA within one year after the date of initiation of operation: a. A signed certification by a professional engineer registered in the state of Minnesota stating that the WWTS, as constructed, meets the design performance standards. b. A certificate of completion of an operation and maintenance manual. At a minimum this must include a detailed discussion of operational controls, maintenance, sampling and analysis, and problem mitigation. This manual must be

		maintained and updated regularly and made available to the MPCA staff upon request. c. As-built drawings and QA/QC test results must be submitted to the MPCA in the format outlined in the MPCA fact sheet titled: "Wastewater Treatment Facility Construction Record Documents: As-Built Submittal Requirements." The document is located on the MPCA web page at: http://www.pca.state.mn.us/sites/default/files/wq-wwtp5-87.pdf. [Minn. R. 7001]
	5.181.169	The Permittee shall notify MPCA : Due within 14 days of commencement of discharge from the WWTS through outfall SD001. [Minn. R. 7001]
	5.181.170	**WWTS Performance Monitoring - Sulfate. [Minn. R. 7001]**
	5.181.171	The Permittee is required to sample for sulfate at an internal performance monitoring station established within the WWTS at a point located after the permeate streams from the reverse osmosis and the nanofiltration membranes are blended and prior to effluent stabilization (monitoring station WS074). [Minn. R. 7001]
	5.181.172	So that the sulfate concentration as measured at WS074 is representative of the discharge of treated effluent through Outfall SD001, no sulfate may be added to the treated wastewater during the effluent stabilization process (i.e., between monitoring station WS074 and Outfall SD001). The Permittee shall certify in the comments section on its DMR for SD001 that no sulfate has been added during the effluent stabilization process. [Minn. R. 7001]
	5.181.173	The Permittee shall meet an Operating Limit of 10 mg/L sulfate. The Operating Limit applies to the rolling average annual sulfate concentration at WS074 (calculated as the rolling average of the most recent 12 calendar monthly average sulfate values). Exceedance of the Operating Limit is a violation of this permit. [Minn. R. 7001]
	5.181.174	The Permittee shall meet an Operating Target of 9 mg/L sulfate. The Operating Target applies to the calendar monthly average sulfate concentration at WS074 (calculated as the average of all sulfate samples taken at WS074 during the calendar month). The Operating Target of 9 mg/L sulfate is defined as an intervention limit that triggers preventative actions (described in Parts 5.181.176 and 5.181.177 below) to help ensure the Operating Limit for sulfate is not exceeded. Exceedance of the Operating Target for sulfate is not a violation of this permit. [Minn. R. 7001]
	5.181.175	If sampling by the Permittee at monitoring station WS074 indicates an exceedance of the Operating Target for sulfate concentration, the Permittee shall conduct the following: a. Provide notification to the MPCA as a comment on the monthly Discharge Monitoring Report. b. Immediately implement investigation and contingency mitigation measures as required by the Sulfate Reduction Evaluation Plan (described in Parts 5.181.176 and 5.181.177 below) to reduce sulfate concentrations below the Operating Target. c. Within 60 days of the exceedance of the Operating Target provide a written report to the MPCA describing the cause of the exceedance, the steps taken to resolve the exceedance and the date at which conformance with the Operating Target was re-achieved. [Minn. R. 7001]
	5.181.176	The Permittee shall submit a plan : Due by one year after permit issuance for the proposed Sulfate Reduction Evaluation Plan (plan). [Minn. R. 7001]
	5.181.177	The Permittee is required to submit a proposed Sulfate Reduction Evaluation Plan (Plan) to the MPCA within 365 days after permit issuance. The Plan shall include, but is not limited to:

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		a. How the Permittee proposes to evaluate the treatment process to ensure sulfate reduction at the WWTS, b. Testing to be performed to diagnose any observed performance issues, and c. A list of contingency mitigation options to restore performance and achieve results at or below the Operating Target in the event the Operating Target sulfate concentration of 9 mg/L is exceeded. The list must, at a minimum, include: the transfer of water from reverse osmosis membranes to nanofiltration units or vice versa, the completion of a Clean in Place process, pressure checks of the membrane modules, and replacement of the membrane modules. The Plan must describe the operating conditions or circumstances under which each option would be taken and a schedule to implement the various options. [Minn. R. 7001]
	5.181.178	The Plan and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the Plan. The Permittee must update the Plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the Plan. The Permittee must update the Plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.179	If sampling by the Permittee at monitoring station WS074 indicates an exceedance of the Operating Target for sulfate, the Permittee shall initiate the plan of action identified in the Sulfate Reduction Evaluation Plan in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receiving laboratory results that indicate an exceedance of the Operating Target. [Minn. R. 7001]
	5.181.180	**WWTS Performance Monitoring - Metals. [Minn. R. 7001]**
	5.181.181	The Permittee is required to sample for total copper, arsenic, cobalt, lead, nickel, and mercury at an internal performance monitoring station established within the WWTS at a point located after the permeate streams from the reverse osmosis and the nanofiltration membranes are blended and prior to effluent stabilization (monitoring station WS074). [Minn. R. 7001]
	5.181.182	The Permittee shall meet a monthly average Operating Limit for total copper, arsenic, cobalt, lead, nickel and mercury at monitoring station WS074 (calculated as the average of each metal sample taken at WS074 during the calendar month). Exceedance of the Operating Limit as listed in the Limits and Monitoring Section at station WS074 is a violation of this permit. [Minn. R. 7001]
	5.181.183	So that the copper and mercury concentrations as measured at monitoring station WS074 are representative of the discharge of treated effluent through Outfall SD001, no copper or mercury may be added to the treated wastewater during the effluent stabilization process (i.e., between monitoring station WS074 and Outfall SD001). [Minn. R. 7001]
	5.181.184	**WWTS Effluent Stabilization Process. [Minn. R. 7001]**
	5.181.185	Permeate stabilization must occur after permeates from the reverse osmosis and nanofiltration processes mix and prior to the discharge. The addition of any aluminum to the effluent stabilization process (i.e., between monitoring station WS074 and Outfall SD001) is prohibited. The Permittee shall certify in the comments section on its DMR for SD001 that no aluminum has been added during the effluent stabilization process. [Minn. R. 7001]
	5.181.186	**Attenuation of Legacy Pollutants. [Minn. R. 7001]**
	5.181.187	The Permittee shall operate and maintain the existing pumpback systems for the former LTVSMC tailings basin located at NPDES/SDS Permit MN0054089 outfalls

		SD004, SD006 and SD026 at the Plant Site until operation of the WWTS is initiated. [Minn. R. 7001]
	5.181.188	The Permittee is required notify MPCA : Due 7 calendar days after Initiation of Operation of WWTS. [Minn. R. 7001]
	5.181.189	The Permittee shall notify MPCA : Due 7 calendar days after Cessation of Operation of pump-back systems located at NPDES/SDS Permit MN0054089 outfalls SD004, SD006, and/or SD026. [Minn. R. 7001]
	5.181.190	The Permittee shall begin sampling of the waters downstream of the Plant Site (SW003, SW005, SW006, SW007, and SW020) 18 months after initiation of operation of the WWTS as described in the Limits & Monitoring Section of this permit. The Permittee is required to notify the MPCA when 17-months has passed after the initiation of operation of the WWTS. [Minn. R. 7001]
	5.181.191	**Model Verification. [Minn. R. 7001]**
	5.181.192	***Annual Report*. [Minn. R. 7001]**
	5.181.193	The Permittee shall submit an Annual Model Verification Report assessing the performance of the probabilistic GoldSim models for the Mine and Plant Sites by comparing predicted water quality and quantity values against actual observed values. The Report must provide a detailed evaluation of the GoldSim models to reflect actual physical conditions and a comparison of the modeled and observed water quality and water quantity at major Project features including, but not limited to, stockpiles, Tailings Basin, groundwater, and downstream monitoring stations. [Minn. R. 7001]
	5.181.194	The Annual Model Verification Report must compare monitoring data collected through the previous year to the values predicted by the GoldSim model as updated with actual inputs (e.g., climate, mine feature dimensions, material movement, waste rock sulfur content, inflow water quantity and quality, etc.). The Report must focus on key parameters including Project flows and concentrations of sulfate, chloride, copper and nickel, but must also include other constituents if available from monitoring results and if necessary to compare predicted and actual water quality and quantity. [Minn. R. 7001]
	5.181.195	The Annual Model Verification Report must include, at a minimum: a. Discussion of observed flows and concentrations as compared to predicted GoldSim value ranges (P10 to P90 statistics, as updated) at critical evaluation locations, including mine pits, stockpile and seepage containment system sumps, collection ponds, and WWTS influents. The discussion must address whether observed flows and concentrations are within the range of previously predicted GoldSim values, as updated, at each comparison location. b. Discussion of predicted range of updated GoldSim values at downgradient groundwater locations as compared to the predicted range of future concentrations. The discussion must address whether the updated predicted future concentrations are within the range of those predicted by GoldSim in previous long-term impact assessments. [Minn. R. 7001]
	5.181.196	For any observed values outside the range of values predicted by GoldSim (as updated), the Annual Model Verification Report must contain, at a minimum, an evaluation of the following: a. Comparison and discussion of the observed values to previously predicted project impacts. Do the observed values indicate the potential for increased Project impacts? b. Model assumptions as updated versus those reflected by the observed data. Are there indications that the model assumptions are incorrect?

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		c. Evaluation of the effect of any changes to the mine plan that occurred after the GoldSim modeling was conducted. Are the observed values the result of mine plan changes that were not captured in the relevant GoldSim predictions? d. Potential future outcomes based on the actual conditions versus model predictions. Are the observed values indicative of potential undesirable or unacceptable future outcomes? [Minn. R. 7001]
	5.181.197	Based on the evaluation of the items in Part 5.181.196 above, the Annual Model Verification Report must include a Work Plan for MPCA approval that proposes actions or responses that will be taken to address any deviations from GoldSim predictions identified by the evaluation required above. If the Permittee determines that the results of the evaluations above do not require any actions or responses and no Work Plan is needed, the Report must contain the specific rationale used to reach that determination. Work plans submitted as required by this permit are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, actions proposed by a submitted work plan may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.181.198	Upon submittal of the Model Verification Work Plan for approval, the Permittee shall initiate the plan of action identified in the Work Plan in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receipt of approval from the MPCA. The Work Plan and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the Work Plan. The Permittee must update the Work Plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the plan. The Permittee must update the Work Plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.199	The first Annual Model Verification Report must be submitted within 18 months of initiation of operation of the WWTS, then annually by May 31 of each year after permit issuance. [Minn. R. 7001]
	5.181.200	The Permittee shall submit a report : Due annually, by the 31st of May for the Annual Model Verification Report. [Minn. R. 7001]
	5.181.201	The Permittee shall submit a report : Due 540 calendar days after Initiation of Operation of WWTS for the first Annual Model Verification Report. [Minn. R. 7001]
	5.181.202	**Five-Year Model Evaluation Report. [Minn. R. 7001]**
	5.181.203	The Permittee shall prepare a Five Year Model Evaluation Report (Report) which includes a comprehensive evaluation of the underlying conceptual models (e.g., XP-SWMM, MODFLOW, Geochemistry, etc.) and other supporting mathematical models that are used as inputs to the GoldSim models. The Report must compare monitoring data collected from the date of permit issuance to the values predicted by the conceptual models as updated with actual inputs (e.g., data from major mine feature and groundwater monitoring wells, stream flow data, waste characterization, WWTS data, etc.). [Minn. R. 7001]
	5.181.204	The Five-Year Model Verification Report must be based on the MPCA-approved Work Plan described in Part 5.181.205 . [Minn. R. 7001]
	5.181.205	The Permittee shall submit a Five Year Model Evaluation Report Work Plan (Work Plan) for MPCA review and approval due at three years after permit issuance. The Work Plan must include, but is not limited to: a. Description of the underlying conceptual models to be evaluated and how they will be evaluated.

		b. The measures or performance standards against which each of the models will be evaluated. c. A discussion of how the model evaluations will collectively be considered to reach a conclusion on the performance of the GoldSim modelling. d. The process for assessing whether the modeling evaluations warrant the need for adaptive management measures, contingency actions and/or other mitigations. All proposed adaptive management, work plans or mitigation measures are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, adaptive management, mitigation measures, or actions described in work plans may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.181.206	Upon submittal of the Work Plan and schedule for approval, the Permittee shall initiate the Work Plan in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 30 days of receipt of approval from the MPCA. The Work Plan and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the Work Plan. The Permittee must update the Work Plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the Work Plan. The Permittee must update the Work Plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.207	If the Permittee determines the results of the evaluation do require further actions or responses, the Report must include a plan of action and schedule for implementation for MPCA review and approval. If the Permittee determines that the results of the evaluations do not require any actions or responses, the Report must contain the specific rationale used to reach that determination. [Minn. R. 7001]
	5.181.208	If the Report includes a plan of action and schedule, the Permittee shall initiate the plan of action in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receipt of approval from the MPCA. [Minn. R. 7001]
	5.181.209	The Report and any plan of action and schedule necessary are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the Report's plan of action, if any. The Permittee must update the Reports plan of action to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the plan of action. The Permittee must update the plan of action to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.210	The Permittee shall submit a plan : Due by three years after permit issuance for the Five Year Model Evaluation Report Work Plan. [Minn. R. 7001]
	5.181.211	The Permittee shall submit the Five Year Model Evaluation Report at least 180 days prior to permit expiration with the application for permit reissuance, which is required by Parts 5.177.110-5.177.113 of this permit. [Minn. R. 7001]
	5.181.212	**Annual Groundwater Evaluation Report. [Minn. R. 7001]**
	5.181.213	The Permittee shall submit an Annual Groundwater Evaluation Report (Groundwater Report) which will provide an annual evaluation and assessment of the groundwater monitoring well data from the Mine Site and Plant Site. The Groundwater Report must include an analysis of data collected through the previous year using appropriate statistical methodologies. The Annual Groundwater Evaluation Report must include, at a minimum:

a. A discussion on the statistical methodologies used in the Report and the rationale for their selection.

b. An evaluation of the overall suitability of the existing groundwater monitoring network at the Mine Site and Plant Site to adequately monitor groundwater flows from the Mine and Plant Sites, including its ability to detect a potential future groundwater impact to any surface water. The evaluation shall identify whether any changes to the monitoring network are needed. If the evaluation indicates that changes to the monitoring network are needed, the Permittee shall:

i. Submit with the Groundwater Report a plan, for MPCA review and approval, that describes in detail the changes proposed, including monitoring locations, parameters to be monitored and/or monitoring frequencies.

ii. Install any approved monitoring wells within 1-year of approval of the wells by MPCA and any other agency that must provide approval. Upon installation of approved monitoring wells, sample the wells for the parameters and at the frequencies identified in the MPCA approval.

iii. Include the data collected from any additional wells installed into the upcoming year's annual report.

c. An evaluation of compliance with groundwater standards at the property boundaries of the Mine Site and Plant Site.

d. An assessment of spatial distribution of groundwater quality and the current and future potential and timeframe for migration toward surface waters from the Mine Site and Plant Site such that, if needed, adaptive management, mitigation or corrective actions can be undertaken prior to the impact occurring.

e. The Permittee shall provide an assessment on the potential for a north flow path in the bedrock or surficial aquifer north of PolyMet's property boundary at the Mine Site. The assessment must provide discussion on whether or not a potential for a north flow path exists and the logic for that determination. If the potential for a north flow path exists, the Permittee must include a plan and schedule for MPCA review and approval for adaptive management or mitigation to prevent northward groundwater flow. The plan and schedule must include:

i. A detailed description of the specific actions to be taken and how they will prevent a north flow path,

ii. A discussion on the timing of implementation of the actions such that a north flow path is prevented before it can occur, and

iii. Whether any additional permitting or approvals are necessary prior to implementation.

If a plan and schedule for adaptive management or mitigation must be implemented, it must comply with the MPCA approved schedule. Work plans or proposed adaptive management or mitigation measures submitted as required by this permit are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, actions proposed by a work plan, adaptive management or mitigation plan may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]

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	5.181.214	Upon submittal of the Annual Groundwater Evaluation Report for approval, the Permittee shall initiate any plan of action identified in the Report in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receipt of approval from the MPCA. The plan of action and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the plan. The Permittee must update the plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the plan. The Permittee must update the plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.215	The Permittee shall submit a report : Due by March 31 of each year following permit issuance for the Annual Groundwater Evaluation Report. [Minn. R. 7001]
	5.181.216	**Annual Comprehensive Performance Evaluation Report. [Minn. R. 7001]**
	5.181.217	The Permittee shall submit an Annual Comprehensive Performance Report (Performance Report). The Performance Report must provide an annual comprehensive assessment of the performance of the facility engineering controls at the Mine Site and Plant Site in minimizing impacts to water resources downstream of the facility, including the avoidance of an unauthorized discharge to surface waters. The intent of the Performance Report is to identify in a proactive manner the potential for unauthorized impacts such that adaptive management, mitigation or corrective actions can be undertaken prior to the potential impact occurring. The Performance Report must utilize all relevant monitoring and performance data, including waste stream monitoring results, groundwater monitoring results, surface water monitoring results and internal operational data. The Performance Report, at a minimum, must address: a. The Category 1 Waste Rock Stockpile Seepage Containment System i. Is an inward gradient being maintained so as to prevent any measurable impact to groundwater from the stockpile? b. The stockpile liner systems for the Category 2/3 Waste Rock Stockpile, Category 4 Waste Rock Stockpile and the Ore Surge Pile i. Are the liner systems being effective in capturing drainage from the stockpiles in such a way so as to prevent any impact to groundwater from the stockpiles? ii. Are the liner systems functioning in such a way so as to prevent any impact to groundwater from the stockpiles? c. The Mine Site equalization basins and wastewater conveyance systems from the Mine Site to the Plant Site i. Does the monitoring indicate any leakage from the equalization basins or conveyance systems? ii. Are the equalization basins functioning in such a way so as to prevent any impact to groundwater from the basins? d. The Tailings Basin Seepage Containment System i. Is an inward gradient being maintained so as to prevent any impact to ground or surface waters from the Tailings Basin?

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		ii. Is all of the seepage collected being routed to the WWTS/FTB? e. The HRF Facility i. Is operation of the HRF Leakage Collection System being effective at preventing seepage through the liner system to groundwater? f. The Transportation and Utility Corridors, including the MPP and railroad i. Is there any leakage or discharge from the MPP? ii. Does the monitoring indicate any impact to ground or surface water along the Corridors? If the answer to any of the above questions indicates that the engineering controls are not operating as intended or are not providing a sufficient level of control, the Performance Report must describe in detail the adaptive management or corrective actions that are being done, or will be done, to correct the problem, including a schedule for their implementation. All proposed adaptive management or proposed corrective actions are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, adaptive management or corrective actions may require a modification of the permit, including a public notice of the proposed modifications. [Minn. R. 7001]
	5.181.218	The Permittee shall submit a report : Due annually, by the 30th of April for the Annual Comprehensive Evaluation Report for MPCA review. Upon submittal of the Annual Comprehensive Performance Evaluation Report for approval, the Permittee shall initiate the adaptive mitigation or corrective actions, if any, identified in the Report in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receipt of approval from the MPCA. The adaptive mitigation or corrective actions and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the plan. The Permittee must update the plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the plan. The Permittee must update the plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	5.181.219	**Hydrometallurgical Residue Facility. [Minn. R. 7001]**
	5.181.220	***Authorization*. [Minn. R. 7001]**
	5.181.221	The HRF is permitted to receive hydrometallurgical residue and process water used to transport residue from the Hydrometallurgical Plant, residual solids from the WWTS, stormwater run-on and direct precipitation, and water collected by the HRF Leakage Collection System. The Permittee shall maintain a closed-loop system at the HRF. Decant water from the HRF Pond is permitted to be pumped back to the Hydrometallurgical Plant for reuse in the process. Direct discharge from the HRF Pond and/or the HRF Leakage Collection system to surface waters or to the FTB is prohibited. All water collected from the HRF Leakage Collection System must be pumped back to the HRF Pond. [Minn. R. 7001]
	5.181.222	The Permittee is prohibited from disposing of coal-ash, including materials from the former LTVSMC Coal Ash Landfill, or any other non-mining waste into the HRF Pond. [Minn. R. 7001]
	5.181.223	***HRF Annual Assessment*. [Minn. R. 7001]**

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	5.181.224	The Permittee shall conduct an annual assessment of the engineering controls, operational data and water quality data at the HRF to evaluate the effectiveness of the liner and Leakage Collection System. A professional engineer licensed in the State of Minnesota with the appropriate expertise shall conduct the assessment. The results of the annual assessment must be included as part of the "Comprehensive Performance Evaluation Report" described in Parts 5.181.216 to 5.181.218. [Minn. R. 7001]
	5.181.225	The Permittee shall conduct monthly inspections of the HRF Pond and HRF Leakage Collection System to ensure that the HRF and all engineering controls are operating effectively. A professional engineer licensed in the State of Minnesota with the appropriate expertise shall conduct the assessment. Inspection reports must be retained at the facility and be made available to the MPCA upon request for a period of five years following completion of the inspection. [Minn. R. 7001]
	5.181.226	***HRF Preload*. [Minn. R. 7001]**
	5.181.227	The Permittee shall submit a Preload Design Investigation Work Plan (PDIW) to MPCA for review and approval at least twelve (12) months prior to placing fill material for preload construction in preparation for the Hydrometallurgical Residue Facility (HRF). The PDIW shall include a schedule with regard to sequencing and timing of the various plans and activities described below to enable MPCA and Permittee to minimize delays that would disrupt implementation of the preload work. [Minn. R. 7001]
	5.181.228	The Preload Design Investigation Work Plan shall include the following items: A. Supplemental Subsurface Investigation Plan (SSIP): The purpose of the SSIP is to obtain additional information on subsurface soil conditions to better understand the in-situ soil conditions and refine the HRF preload design to minimize the uncertainty associated with differential settlement. The goal of the SSIP is to ensure that the types of information gathered and methods used to acquire that information will meet the needs of the HRF Preload Design Plan described in Part 5.181.230. The SSIP must propose investigation and testing methods and locations for additional investigation in the (previously/currently) inaccessible portion of the Emergency Basin where the HRF will be constructed. The SSIP must include provisions for: i. Construction of a working platform to ensure vehicle access and safety to conduct investigation activities. If the working platform is to remain in- place as a permanent part of the preload, a Working Platform Development Plan described in Part B below must also be submitted for review and approval; ii. A subsurface exploration and laboratory testing program to develop a soil profile for the previously inaccessible area of the Emergency Basin. To accurately develop a soil profile for at least four cross-sections - two oriented north-south and two oriented east-west - the exploration program shall consist of either: a. a geophysical survey, using methods such as seismic refraction and electrical resistivity, combined with supplemental soil borings at locations of interest, or b. a sufficient number of soil borings that if used in the absence of geophysical methods provide the information necessary to adequately characterize the soil profile sufficient to complete the required cross-sections. Soil sample collection and soil sample testing, including laboratory consolidation testing per ASTM D2435 on peat and fine tailings/slimes shall be performed. Proposed locations for soil borings must be reviewed and approved by MPCA.

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		iii. If the use of wick drains is anticipated, additional consolidation testing of the fine tailings and peat underlying the proposed HRF must be completed. If wick drains are anticipated, the SSIP must describe the additional testing that will be conducted to inform the Wick Drain Plan required by Part 5.181.230. B. Working Platform Development Plan (WPDP): The WPDP must identify and provide details on the proposed methods (e.g. the use of low-ground pressure equipment) used to: 1) ensure a safe and stable working platform over the soft soils that are present in the Emergency Basin; and 2) minimize differential settlement and minimize long-term HRF liner stress due to localized displacement. [Minn. R. 7001]
	5.181.229	The Permittee shall submit a plan : Due 60 calendar days before Construction Start Date of HRF and prior to the start of placing fill material for preload construction in preparation for the HRF, for MPCA review and approval. [Minn. R. 7001]
	5.181.230	The HRF Preload Design Plan must include the following: A. Design and Specification documentation that provide details on the design of the preload based on the results of the SSIP. At a minimum, the Design and Specification documentation must: i. Identify locations where soft soil (peat and fine tailings/slimes) remediation measures, other than a preload, will be used. If methods such as 1) excavation/replacement with granular fill or 2) soft soil displacement (rolling surcharge) are used, then details of the proposed procedures must be provided and visual confirmation (for open excavations) and cone penetration testing and/or soil borings (for rolling surcharge) shall be performed to verify all unsuitable soils have been removed; ii. Specify the corresponding preload height/crest elevation and the total proposed consolidation stress that will be applied to the foundation soils; iii. Where different preload heights and different stress levels will be applied to different areas of the foundation soils, identify the extent of each area and stress level; iv. Detail the preload extent and limits along the sideslope of existing tailings basin cell 2W; v. Identify the preload materials and placement methods, including constraints on equipment; vi. Describe the geotechnical instrumentation that will be used to determine when pore water pressure dissipation and consolidation settlement is functionally complete; vii. Provide an estimate of preload time required for each area subjected to a different preload stress within the HRF footprint. B. A Geotechnical Instrumentation and Monitoring Plan (GIMP) as a separate document or as an attachment to the HPDP. The GIMP must identify and provide details on the type, number, and locations of instrumentation that may include, but is not necessarily limited to pore water pressure cells and settlement plates that will be used to determine when excess pore pressure has dissipated within soft soil deposits

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		and settlement is functionally complete after preload construction. C. The Permittee may propose to use wick drains to accelerate consolidation settlement. If a wick drain system is proposed, the Permittee shall include a Wick Drain Plan (WDP). The WDP must incorporate results of consolidation tests performed on samples of fine tailing/slimes and peat collected as a part of the SSIP. D. A HRF Liner Plan (HLP) as a separate document or as an attachment to the HPDP. The HLP must include final plans and specifications for the HRF liner system and Leakage Collection System for MPCA review and approval. At a minimum, provisions for the following items are required elements for the design: i. If the primary liner is proposed to be exposed, at least 100-mil high density polyethylene (HDPE) is required; an alternate primary liner or a covered primary liner that provides equivalent performance may be proposed subject to approval by the MPCA; ii. The secondary liner must be at least 60-mil HDPE; an alternate secondary liner that provides equivalent performance may be proposed subject to approval by the MPCA; iii. The design must incorporate a lysimeter under the HRF sump or other suitable monitoring device located northwest of and proximal to the HRF and within the FTB Seepage Containment System that is capable of assessing the facility's impact on groundwater quality. iv. The design must include an analysis of the suitability of the proposed monitoring to detect leakage from the HRF. v. Strain gauge(s) or other strain monitoring systems, such as fiber optics, must be included with the liner to monitor and provide assurance that the liner system is not subject to excessive strain. [Minn. R. 7001]
	5.181.231	The Permittee shall provide the funding for MPCA to contract with a qualified third-party geotechnical consultant to provide expertise for the review of the geotechnical aspects of the Preload Design Investigation Work Plan, HRF Preload Design Plan, and associated sub-plans. [Minn. R. 7001]
	5.181.232	The Permittee shall submit a notification : Due 90 calendar days after Installation of Instrumentation every 90 days with updates on the data collected through the GIMP and any proposed revisions to the HPDP. [Minn. R. 7001]
	5.181.233	When the Permittee determines that consolidation is functionally complete, it may propose to remove the preload at any time by submitting the cumulative geotechnical monitoring results from the preload to MPCA for review and approval. The Permittee must submit the proposal and monitoring results at least 30 days prior to the proposed date that the preload removal would commence. [Minn. R. 7001]
	5.181.234	If the MPCA determines, upon review of the submittals required in Parts 5.818.226 – 5.181.233 that site conditions at the proposed HRF location preclude the construction and operation of the HRF in compliance with applicable water quality standards, construction of the HRF at that location is prohibited. [Minn. R. 7001]
	5.181.235	***Work Plans*. [Minn. R. 7001]**
	5.181.236	Work plans required by this permit are subject to MPCA review and approval. In accordance with Minn. R. 7001.0170, actions proposed by a work plan may require a major modification of the permit pursuant to Minn. R. 7001.0170, including a public notice of the proposed modifications. [Minn. R. 7001]

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		Stormwater Management
	5.182.237	**Authorization. [Minn. R. 7001]**
	5.182.238	This permit does not authorize the discharge of stormwater. The discharge and management of construction stormwater and industrial stormwater for the Project will be regulated under National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater General Permit (MNR100001) and the NPDES/SDS Industrial Stormwater General Permit (MNR050000) respectively. [Minn. R. 7001]
	5.182.239	**Construction Stormwater. [Minn. R. 7001]**
	5.182.240	This permit does not authorize the discharge of construction stormwater. The Permittee shall obtain and maintain coverage under the NPDES/SDS Construction Stormwater General Permit (MNR100001) for any stormwater generated from the Project construction prior to initiation of mining operations and prior to the operation of the WWTS for the following areas: a. Mine Site b. Plant Site (Processing Areas) c. Tailings Basin d. Transportation & Utility Corridors. [Minn. R. 7001]
	5.182.241	As construction is completed or as construction areas are re-vegetated/stabilized, stormwater runoff from these former construction areas must either be permitted as industrial stormwater covered under the Minnesota Industrial Stormwater General Permit or must be non-contact stormwater (which does not require permit coverage). Upon completion of construction and site stabilization, the Permittee shall request termination of coverage under the Construction Stormwater General Permit. The Permittee shall submit a Notice of Termination (NOT) to the MPCA on a form provided by the Commissioner within 30 days after all activities required for Final Stabilization (as defined by the Construction Stormwater General Permit) are complete. [Minn. R. 7001]
	5.182.242	**Termination of Construction Stormwater General Permit(s). [Minn. R. 7001]**
	5.182.243	The Permittee may request termination of coverage under the General Construction Stormwater permits for the Mine Site, Plant Site (Processing Areas) and Tailings Basin upon the initiation of operation of the WWTS. The Permittee must obtain coverage under the Industrial Stormwater General Permit for these areas prior to requesting termination of the Construction Stormwater General Permit(s). [Minn. R. 7001]
	5.182.244	The Permittee may request termination of coverage under the General Construction Stormwater Permit for the Transportation and Utility Corridors upon completion of infrastructure upgrades (e.g., railroad, Dunka Road) and completion of new infrastructure (e.g., Mine to Plant Pipeline). The Permittee must obtain coverage under the Industrial Stormwater General Permit prior to requesting termination of the Construction Stormwater General Permit for the Transportation and Utility Corridors. [Minn. R. 7001]
	5.182.245	This permit does not authorize discharges of construction stormwater after termination of coverage under the Construction Stormwater General Permit. If construction is required after termination of the Construction Stormwater General Permit coverage, and the stormwater from the proposed construction area will not be routed to a point which ultimately discharges through NPDES discharge point SD001, the Permittee shall apply for and obtain any necessary Construction Stormwater General Permit coverage prior to commencing construction in these areas. [Minn. R. 7001]
	5.182.246	**Industrial Stormwater. [Minn. R. 7090]**

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	5.182.247	This permit does not authorize the discharge of industrial stormwater from the NorthMet project. The Permittee shall obtain and maintain coverage under the NPDES/SDS Industrial Stormwater General Permit (MNR050000) for any stormwater generated from industrial activities at the NorthMet Mine Site, Plant Site, and Transportation and Utility Corridors that is not ultimately discharged through NPDES discharge point SD001. [Minn. R. 7090]
		Total Facility Requirements (NPDES/SDS)
	5.183.248	Definitions. Refer to the 'Permit Users Manual' found on the MPCA website (www.pca.state.mn.us) for standard definitions. [Minn. R. 7001.]
	5.183.249	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. ch. 115 and 116. [Minn. R. 7001]
	5.183.250	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(E)]
	5.183.251	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(A)]
	5.183.252	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]
	5.183.253	Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
	5.183.254	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)]
	5.183.255	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(D)]
	5.183.256	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)]
	5.183.257	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)]
	5.183.258	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]

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	5.183.259	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]
	5.183.260	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 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(I)]
	5.183.261	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. [Minn. R. 7001.0150, subp. 3(F)]
	5.183.262	Sampling. [Minn. R. 7001]
	5.183.263	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)]
	5.183.264	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(E)]
	5.183.265	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. R. 4740.2010, Minn. R. 4740.2050 through 2120]
	5.183.266	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. [40 CFR 136, Minn. R. 7041.3200]
	5.183.267	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, 2(B and C)]
	5.183.268	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: 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; d. the analytical techniques, procedures and methods used; and e. the results of the analysis. [Minn. R. 7001.0150, 2(C)]

	5.183.269	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. Required forms may include DMR Supplemental/Sample Value Form Individual values for each sample and measurement shall be recorded on the DMR Supplemental/Sample Value Form which, if required, will be provided by the MPCA. DMR Supplemental/Sample Value Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it shall be approved by the MPCA. Note: Required summary information shall also be recorded on the DMR. Summary information that is submitted ONLY on the DMR Supplemental/Sample Value Form does not comply with the reporting requirements. [Minn. R. 7001.1090, 1(D), Minn. R. 7001.150, 2(B)]
	5.183.270	Submitting Reports. DMRs, DMR supplemental forms and related attachments must be electronically submitted via MPCA e-Services after authorization is approved. DMRs and DMR Supplemental Forms shall be electronically submitted by the 21st day of the month following the sampling period or otherwise as specified in this permit. Electronic DMR submittal shall be complete on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. A DMR shall be submitted for each required station even if no discharge occurred during the reporting period. Other reports required by this permit shall be postmarked by the date specified in the permit to: MPCA, Attn: WQ Submittals Center, 520 Lafayette Road North, St Paul Minnesota 551554194. [Minn. R. 7001.0150, 2(B), Minn. R. 7001.0150, 3(H)]
	5.183.271	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, 3(G)]
	5.183.272	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 shall 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, shall be certified by a registered professional engineer. [Minn. R. 7001.0540]
	5.183.273	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. 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:

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		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, 2(B)]
	5.183.274	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, 3(H)]
	5.183.275	Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 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 shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]
	5.183.276	Noncompliance and Enforcement. [Minn. R. 7001]
	5.183.277	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, 1(B)]
	5.183.278	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, 3(G), Minn. R. 7001.1090, 1(G and H), Minn. Stat. ch. 609.671, 1]
	5.183.279	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)]
	5.183.280	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;

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		d. the exact dates and times of the event; and e. steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.150, 3(K)]
	5.183.281	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. [Minn. R. 7001.1090]
	5.183.282	Release. [Minn. R. 7001]
	5.183.283	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, Minn. Stat. ch. 115.061]
	5.183.284	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. [Minn. R. 7001.1090]
	5.183.285	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

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		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. [Minn. R. 7001.1090]
	5.183.286	Bypass. [Minn. R. 7001]
	5.183.287	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. 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 shall 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. [40 CFR 122.41(m)(2 and 3), Minn. R. 7001.1090, 1(J)]
	5.183.288	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). 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. [40 CFR 122.41(m)(4)(i), Minn. Stat. ch. 115.061]
	5.183.289	Operation and Maintenance. [Minn. R. 7001]
	5.183.290	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. In addition to other operation and maintenance activities specified in this 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

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		technically and economically feasible Minn. R. 7001.0150. subp. 3, item F. [Minn. R. 7001.0150, 3(F)]
	5.183.291	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, 1(C)]
	5.183.292	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, Minn. R. 7041]
	5.183.293	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, 3(F), Minn. R. 7001.150, 2(B)]
	5.183.294	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, 3(F), Minn. R. 7001.150, 2(B)]
	5.183.295	Changes to the Facility or Permit. [Minn. R. 7001]
	5.183.296	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. Permittees that propose to make a change to the facility or discharge that requires a permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee shall 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. [Minn. R. 7001.0030]
	5.183.297	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. [Minn. R. 7001.0030]
	5.183.298	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, 3(M)]
	5.183.299	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

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		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. 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 (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. 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. [Minn. R. 7001.0170]
	5.183.300	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. [Minn. R. 7001.0170, Minn. R. 7001.0180]
	5.183.301	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.l.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. [40 CFR 122.44(l)(2)(i)]
	5.183.302	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, 3(N)]
	5.183.303	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. 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

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		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. [Minn. R. 7001.0160]

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Submittal action summary

GW002	**Piezometer, Upgradient**	
		Facility Specific Limit and 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)]
GW009	**Piezometer, Downgradient**	
		Facility Specific Limit and 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)]
GW010	**Piezometer, Downgradient**	
		Facility Specific Limit and 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)]
GW015	**Piezometer, Downgradient**	
		Facility Specific Limit and 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)]
GW016	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring 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)]
GW109	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.6.1	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)]
GW110	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.7.1	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)]
GW115	**Piezometer, Downgradient**	

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		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)]
GW116	**Piezometer, Downgradient**	
		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)]
GW117	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.10.1	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)]
GW118	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.11.1	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)]
GW119	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.12.1	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)]
GW120	**Piezometer, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.13.1	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)]
GW121	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.14.1	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)]
GW200	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.15.1	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)]

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GW201	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.16.1	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)]
GW202	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.17.1	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)]
GW203	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.18.1	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)]
GW204	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.19.1	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)]
GW205	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.20.1	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)]
GW206	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.21.1	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)]
GW207	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.22.1	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)]
GW208	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.23.1	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)]
GW209	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.24.1	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)]

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GW210	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.25.1	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)]
GW211	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.26.1	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)]
GW212	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.27.1	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)]
GW213	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.28.1	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)]
GW214	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.29.1	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)]
GW215	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.30.1	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)]
GW216	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.31.1	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)]
GW217	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.32.1	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)]
GW218	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements

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	6.33.1	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)]
GW219	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.34.1	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)]
GW220	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.35.1	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)]
GW221	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.36.1	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)]
GW222	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.37.1	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)]
GW223	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.38.1	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)]
GW236	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.39.1	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)]
GW237	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.40.1	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)]
GW402	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.41.1	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)]

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GW403	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.42.1	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)]
GW405	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.43.1	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)]
GW407	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.44.1	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)]
GW408	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.45.1	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)]
GW409	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.46.1	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)]
GW411	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.47.1	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)]
GW412	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.48.1	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)]
GW414	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements

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	6.49.1	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)]
GW415	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.50.1	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)]
GW416	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.51.1	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)]
GW417	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.52.1	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)]
GW418	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.53.1	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)]
GW419	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.54.1	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)]
GW420	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.55.1	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)]
GW421	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.56.1	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)]

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GW422	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.57.1	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)]
GW468	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.58.1	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)]
GW470	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.59.1	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)]
GW471	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.60.1	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)]
GW472	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.61.1	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)]
GW473	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.62.1	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)]
GW477	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.63.1	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)]
GW478	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.64.1	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)]
GW479	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements

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	6.65.1	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)]
GW491	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.66.1	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)]
GW492	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.67.1	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)]
GW493	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.68.1	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)]
GW494	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.69.1	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)]
GW495	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.70.1	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)]
GW499	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.71.1	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)]
GW501	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.72.1	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)]
GW502	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.73.1	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)]

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GW504	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.74.1	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)]
GW505	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.75.1	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)]
GW506	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.76.1	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)]
GW507	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.77.1	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)]
GW508	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.78.1	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)]
GW509	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.79.1	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)]
GW510	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.80.1	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)]
GW512	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.81.1	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)]
GW514	**Well, Downgradient**	

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		Facility Specific Limit and Monitoring Requirements
	6.82.1	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)]
GW515	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.83.1	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)]
GW516	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.84.1	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)]
GW517	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.85.1	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)]
GW518	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.86.1	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)]
GW519	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.87.1	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)]
GW521	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.88.1	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)]
GW522	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.89.1	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)]
GW523	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.90.1	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)]

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GW524	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.91.1	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)]
GW525	**Well, Downgradient**	
		Facility Specific Limit and Monitoring Requirements
	6.92.1	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)]
GW600	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.93.1	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)]
GW601	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.94.1	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)]
GW602	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.95.1	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)]
GW603	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.96.1	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)]
GW604	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.97.1	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)]
GW605	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.98.1	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)]
GW606	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements

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	6.99.1	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)]
GW607	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.100.1	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)]
GW608	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.101.1	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)]
GW609	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.102.1	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)]
GW610	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.103.1	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)]
GW611	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.104.1	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)]
GW612	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.105.1	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)]
GW613	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.106.1	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)]
GW614	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.107.1	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)]
GW615	**Well, Other**	

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		Facility Specific Limit and Monitoring Requirements
	6.108.1	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)]
GW616	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.109.1	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)]
GW617	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.110.1	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)]
GW618	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.111.1	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)]
GW619	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.112.1	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)]
GW620	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.113.1	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)]
GW621	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.114.1	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)]
GW622	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.115.1	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)]
GW623	**Well, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.116.1	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)]

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GW624	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.117.1	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)]
GW625	**Piezometer, Other**	
		Facility Specific Limit and Monitoring Requirements
	6.118.1	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)]
SD001	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.119.1	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)]
		Chronic Toxicity Requirements
	6.120.2	The Permittee shall submit quarterly chronic toxicity test battery results : Due quarterly following commencement of discharge from the WWTS. [Minn. R. 7001]
SD002	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.121.1	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)]
SD003	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.122.1	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)]
SD004	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.123.1	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)]
SD005	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.124.1	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)]

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SD006	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.125.1	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)]
SD007	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.126.1	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)]
SD008	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.127.1	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)]
SD009	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.128.1	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)]
SD010	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.129.1	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)]
SD011	**Effluent To Surface Water**	
		Facility Specific Limit and Monitoring Requirements
	6.130.1	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)]
SW003	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.131.1	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)]
SW005	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements

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	6.132.1	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)]
SW006	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.133.1	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)]
SW007	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.134.1	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)]
SW008	**Stream/River/Ditch, Upstream**	
		Facility Specific Limit and Monitoring Requirements
	6.135.1	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)]
SW020	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.136.1	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)]
SW402	**Stream/River/Ditch, Upstream**	
		Facility Specific Limit and Monitoring Requirements
	6.137.1	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)]
SW407	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.138.1	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)]
SW408	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.139.1	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)]

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SW409	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.140.1	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)]
SW410	**Stream/River/Ditch, Upstream**	
		Facility Specific Limit and Monitoring Requirements
	6.141.1	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)]
SW411	**Stream/River/Ditch, Upstream**	
		Facility Specific Limit and Monitoring Requirements
	6.142.1	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)]
SW412	**Stream/River/Ditch, Upstream**	
		Facility Specific Limit and Monitoring Requirements
	6.143.1	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)]
SW413	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.144.1	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)]
SW414	**Stream/River/Ditch, Downstream**	
		Facility Specific Limit and Monitoring Requirements
	6.145.1	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)]
WS001	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.146.1	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)]
WS002	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements

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	6.147.1	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)]
WS003	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.148.1	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)]
WS004	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.149.1	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)]
WS005	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.150.1	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)]
WS009	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.151.1	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)]
WS015	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.152.1	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)]
WS072	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.153.1	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)]
WS073	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.154.1	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)]

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WS074	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.155.1	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)]
WS401	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.156.1	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)]
WS402	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.157.1	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)]
WS403	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.158.1	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)]
WS404	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.159.1	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)]
WS411	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.160.1	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)]
WS412	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.161.1	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)]
WS413	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements

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	6.162.1	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)]
WS414	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.163.1	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)]
WS415	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.164.1	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)]
WS416	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.165.1	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)]
WS421	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.166.1	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)]
WS422	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.167.1	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)]
WS423	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.168.1	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)]
WS424	**Internal Waste Stream**	
		Facility Specific Limit and Monitoring Requirements
	6.169.1	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)]

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WS425	Internal Waste Stream	
		Facility Specific Limit and Monitoring Requirements
	6.170.1	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)]
		Special Requirements
	6.171.1	The Permittee shall submit specifications : Due 365 calendar days after Initiation of Operation of FTB System referenced in part 5.175.57. [Minn. R. 7001]
	6.171.2	The Permittee shall notify MPCA : Due 14 calendar days after Construction Complete Date for FTB System. [Minn. R. 7001]
	6.171.3	The Permittee shall notify MPCA : Due 14 calendar days after Initiation of Operation of FTB System and introduction of nonferrous tailings to the FTB. [Minn. R. 7001]
	6.171.4	The Permittee shall submit specifications : Due 365 calendar days after Construction Complete Date of Category 1 Waste Rock Stockpile Groundwater Containment System referenced in part 5.175.80. [Minn. R. 7001]
		Mercury Minimization Plan (Lake Superior Basin)
	6.172.5	The Permittee shall submit a mercury pollutant minimization plan : Due by 180 days after permit issuance. [Minn. R. 7001]
	6.172.6	The Permittee shall submit an annual mercury pollutant minimization plan (MMP) update : Due annually, by the 1st of March following MPCA approval of the MMP. Submit the MMP to the MPCA Water Quality Submittals Center. [Minn. R. 7052]
		Industrial Pond System
	6.173.7	The Permittee shall submit a report : Due by 180 days prior to permit expiration for the Equalization Basin Performance Evaluation Report. [Minn. R. 7001]
		Special Requirements - Mining
	6.174.8	The Permittee shall notify MPCA : Due within 14 days of commencement of discharge from the WWTS through outfall SD001. [Minn. R. 7001]
	6.174.9	The Permittee shall submit a plan : Due by one year after permit issuance for the proposed Sulfate Reduction Evaluation Plan (plan). [Minn. R. 7001]
	6.174.10	The Permittee is required notify MPCA : Due 7 calendar days after Initiation of Operation of WWTS. [Minn. R. 7001]
	6.174.11	The Permittee shall notify MPCA : Due 7 calendar days after Cessation of Operation of pump-back systems located at NPDES/SDS Permit MN0054089 outfalls SD004, SD006, and/or SD026. [Minn. R. 7001]
	6.174.12	The Permittee shall submit a report : Due annually, by the 31st of May for the Annual Model Verification Report. [Minn. R. 7001]
	6.174.13	The Permittee shall submit a report : Due 540 calendar days after Initiation of Operation of WWTS for the first Annual Model Verification Report. [Minn. R. 7001]
	6.174.14	The Permittee shall submit a plan : Due by three years after permit issuance for the Five Year Model Evaluation Report Work Plan. [Minn. R. 7001]
	6.174.15	The Permittee shall submit a report : Due by March 31 of each year following permit issuance for the Annual Groundwater Evaluation Report. [Minn. R. 7001]

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	6.174.16	The Permittee shall submit a report : Due annually, by the 30th of April for the Annual Comprehensive Evaluation Report for MPCA review. Upon submittal of the Annual Comprehensive Performance Evaluation Report for approval, the Permittee shall initiate the adaptive mitigation or corrective actions, if any, identified in the Report in accordance with the schedule contained therein, and provide written notice to the MPCA that it has done so within 14 days of receipt of approval from the MPCA. The adaptive mitigation or corrective actions and schedule are enforceable under this permit upon submittal. The MPCA reserves the right to grant partial approval of the plan. The Permittee must update the plan to address MPCA's comments to the satisfaction of the MPCA on any disapproved portion of the plan. The Permittee must update the plan to address MPCA's comments within 30 days of receiving the comments, or a longer period if allowed by MPCA. Failure to address MPCA disapproval within the specified deadline is a violation of the permit. [Minn. R. 7001]
	6.174.17	The Permittee shall submit a plan : Due 60 calendar days before Construction Start Date of HRF and prior to the start of placing fill material for preload construction in preparation for the HRF, for MPCA review and approval. [Minn. R. 7001]
	6.174.18	The Permittee shall submit a notification : Due 90 calendar days after Installation of Instrumentation every 90 days with updates on the data collected through the GIMP and any proposed revisions to the HPDP. [Minn. R. 7001]
	6.174.19	The Permittee shall submit specifications : Due 365 calendar days after Installation Complete Date for Cat 2/3, Cat 4, and Ore Surge Piles referenced in part 5.175.89. [Minn. R. 7001]
		Total Facility Requirements (NPDES/SDS)
	6.175.20	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. 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. [Minn. R. 7001.0160]

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6. Limits and monitoring

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons	Boron, Dissolved (as B)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
upgradient & west of FTB & HRF						month average						
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
upgradient & west of FTB & HRF		month average										
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per day	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons	pH					Monitor only. calendar		standard units	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
upgradient & west of FTB & HRF						month average						
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW002 GW002: Surficial Aquifer - Plant Site. Background conditons upgradient & west of FTB & HRF	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell	Aluminum, Dissolved (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
2E; beyond property boundary						month average						
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell	Cadmium, Dissolved (as Cd)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E; beyond property boundary						month average						
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell	Fluoride, Total (as F)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E; beyond property boundary						month average						
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per day	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell	Selenium, Dissolved (as Se)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E; beyond property boundary						month average						
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW009 GW009: Surficial Aquifer - Plant Site. Downgradient of FTB Cell 2E; beyond property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at	Antimony, Dissolved (as Sb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
northern property boundary						month average						
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at	Calcium, Dissolved (as Ca)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northern property boundary						month average						
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northern property boundary	Calculated (as CaCO3)					month average						
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per day	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at	Solids, Total Dissolved (TDS)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northern property boundary						month average						
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW010 GW010: Surficial Aquifer - Plant Site. Downgradient of FTB at northern property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per day	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW015 GW015: Surficial Aquifer - Plant Site. Background conditions west and downgradient of Cell 2W at western property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
at northwestern property boundary												
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W	Copper, Dissolved (as Cu)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
at northwestern property boundary						month average						
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per day	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W	Nickel, Dissolved (as Ni)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
at northwestern property boundary						month average						
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW016 GW016: Surficial Aquifer - Plant Site. Downgradient of Cell 2W	Zinc, Dissolved (as Zn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
at northwestern property boundary						month average						
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW109 GW109: Bedrock - Plant Site. Downgradient	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of FTB Cell 2E beyond the property boundary						month average						
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW109 GW109: Bedrock - Plant Site. Downgradient of FTB Cell 2E beyond the property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient	Fluoride, Total (as F)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
of FTB at northern property boundary						month average						
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW110 GW110: Bedrock - Plant Site. Downgradient of FTB at northern property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW115 GW115: Bedrock - Plant Site. Background conditions west and downgradient of Cell 2W at the western property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient	Calcium, Dissolved (as Ca)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of Cell 2W at northwestern property boundary						month average						
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient	Lead, Dissolved (as Pb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of Cell 2W at northwestern property boundary						month average						
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW116 GW116: Bedrock - Plant Site. Downgradient of Cell 2W at northwestern property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E,	Beryllium, Dissolved (as Be)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
outside FTB seepage containment system and within property boundary						month average						
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E,	Chromium, Dissolved (as Cr)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
outside FTB seepage containment system and within property boundary						month average						
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E,	Lead, Dissolved (as Pb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
outside FTB seepage containment system and within property boundary						month average						
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E,	Solids, Total Dissolved (TDS)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
outside FTB seepage containment system and within property boundary						month average						
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW117 GW117: Bedrock - Plant Site. Downgradient of northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell	Antimony, Dissolved (as Sb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E, outside FTB seepage containment system and within property boundary						month average						
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell	Cadmium, Dissolved (as Cd)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E, outside FTB seepage containment system and within property boundary						month average						
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E, outside FTB seepage containment system and within property boundary		month average										
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell	Nickel, Dissolved (as Ni)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E, outside FTB seepage containment system and within property boundary						month average						
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell	Thallium, Dissolved (as Tl)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
2E, outside FTB seepage containment system and within property boundary						month average						
GW118 GW118: Bedrock - Plant Site. Downgradient of the northern side of Cell 2E, outside FTB seepage containment system and within property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W	Beryllium, Dissolved (as Be)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W	Chromium, Dissolved (as Cr)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W	Lead, Dissolved (as Pb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W	Solids, Total Dissolved (TDS)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW119 GW119: Bedrock - Plant Site. Downgradient of northern toe of Cell 2W and outside the FTB seepage containment system	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W	Antimony, Dissolved (as Sb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Boron, Dissolved (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W	Cadmium, Dissolved (as Cd)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system		month average										
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W	Nickel, Dissolved (as Ni)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W	Thallium, Dissolved (as Tl)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
and outside the FTB seepage containment system						month average						
GW120 GW120: Bedrock - Plant Site. Downgradient of western toe of Cell 2W and outside the FTB seepage containment system	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Boron, Dissolved (as B)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
GW121 GW121: Bedrock - Plant Site.	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW121 GW121: Bedrock - Plant Site.	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
GW121 GW121: Bedrock - Plant Site.	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW121 GW121: Bedrock - Plant Site.	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW121 GW121: Bedrock - Plant Site.	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW200 GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW200 GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW200 GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW200 GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
System performance monitoring paired wells (GW200-GW201)						month average						
GW200 GW200: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW201 GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW201 GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW201 GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW201 GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW200-GW201)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW201 GW201: Surficial Aquifer - Plant Site. FTB Seepage Containment	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
System performance monitoring paired wells (GW200-GW201)						month average						
GW202 GW202: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW202-GW203)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW203 GW203: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW202-GW203)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW204 GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW204 GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW204 GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW204 GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW204 GW204: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW205 GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW205 GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW205 GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW205 GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW205 GW205: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW204-GW205)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW206 GW206: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW206-GW207)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW207 GW207: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW206-GW207)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW208 GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW208 GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW208 GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW208-GW209)												
GW208 GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW208 GW208: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW209 GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW209 GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW209 GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW209 GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW208-GW209)												
GW209 GW209: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW208-GW209)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW210 GW210: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW210-GW211)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW211 GW211: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW210-GW211)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW212 GW212: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW211-GW212)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW212 GW212: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW211-GW212)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW212 GW212: Surficial Aquifer - Plant Site. FTB	Solids, Total Dissolved (TDS)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Seepage Containment System performance monitoring paired wells (GW211-GW212)						month average						
GW212 GW212: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW211-GW212)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW212 GW212: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW211-GW212)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW213 GW213: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW212-GW213)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW213 GW213: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW212-GW213)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW213 GW213: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW212-GW213)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW213 GW213: Surficial Aquifer - Plant Site. FTB	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Seepage Containment System performance monitoring paired wells (GW212-GW213)						month average						
GW213 GW213: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW212-GW213)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW214 GW214: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW214-GW215)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW215 GW215: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW214-GW215)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW216 GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW216 GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW216 GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW216 GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW216 GW216: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW217 GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW217 GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW217 GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW217 GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW217 GW217: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW216-GW217)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW218 GW218: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW218-GW219)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW219 GW219: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW218-GW219)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW220 GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW220 GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW220-GW221)		month average										
GW220 GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW220 GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW220 GW220: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW221 GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW221 GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Grab	Jan, Apr, Jul, Oct	
GW221 GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW220-GW221)												
GW221 GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW221 GW221: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells (GW220-GW221)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW222 GW222: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW222-GW223)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW223 GW223: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired piezometers (GW222-GW223)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW236 GW236: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells. East of east dam	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW237 GW237: Surficial Aquifer - Plant Site. FTB Seepage Containment System performance monitoring paired wells. East of east dam	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW402 MW-2: Surficial Aquifer - Mine Site. Downgradient of West Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site.	Hardness, Calcium &					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Category 2/3 Waste Rock Stockpile	Magnesium, Calculated (as CaCO3)					month average						
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW403 MW-3: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site.	Bicarbonates (HCO3)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Equalization Basin Area						month average						
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site.	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Equalization Basin Area						month average						
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW405 MW-5: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site.	Fluoride, Total (as F)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jul	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Downgradient of OSP, along property boundary						month average						
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW407 MW-7: Surficial Aquifer - Mine Site. Downgradient of OSP, along property boundary	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
1 Stockpile Groundwater Containment System												
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category	Cobalt, Dissolved (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
1 Stockpile Groundwater Containment System						month average						
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category	Manganese, Dissolved (as Mn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
1 Stockpile Groundwater Containment System						month average						
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category	Thallium, Dissolved (as Tl)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
1 Stockpile Groundwater Containment System						month average						
GW408 MW-8S: Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW409 MW-10S: Surficial Aquifer - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile and Central Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW411 MW-11: Surficial Aquifer - Mine Site. Downgradient of OSLA	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and	Arsenic, Dissolved (as As)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northeast of Category 1 Stockpile Groundwater Containment System						month average						
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and	Chloride, Total					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northeast of Category 1 Stockpile Groundwater Containment System						month average						
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northeast of Category 1 Stockpile Groundwater Containment System	Calculated (as CaCO3)					month average						
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and	Selenium, Dissolved (as Se)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
northeast of Category 1 Stockpile Groundwater Containment System						month average						
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW412 MW-12: Surficial Aquifer - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of	Aluminum, Dissolved (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of	Cadmium, Dissolved (as Cd)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System		month average										
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of	Nickel, Dissolved (as Ni)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of	Thallium, Dissolved (as Tl)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW414 MW-14: Surficial Aquifer - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of	Beryllium, Dissolved (as Be)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of	Cobalt, Dissolved (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of	Magnesium, Dissolved (as Mg)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Category 1 Stockpile Groundwater Containment System						month average						
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW415 MW-15: Surficial Aquifer - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit	Arsenic, Dissolved (as As)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and Category 1 Stockpile Groundwater Containment System						month average						
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit	Chloride, Total					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and Category 1 Stockpile Groundwater Containment System						month average						
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and Category 1 Stockpile Groundwater Containment System	Calculated (as CaCO3)					month average						
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit	Selenium, Dissolved (as Se)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and Category 1 Stockpile Groundwater Containment System						month average						
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW416 MW-16: Surficial Aquifer - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site.	Aluminum, Dissolved (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Category 2/3 Waste Rock Stockpile						month average						
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW417 MW-17: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW417 MW-17: Surficial Aquifer - Mine Site.	Zinc, Dissolved (as Zn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Category 2/3 Waste Rock Stockpile						month average						
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Containment System and west of West Pit												
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Containment System and west of West Pit												
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Containment System and west of West Pit												
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Containment System and west of West Pit												
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW418 MW-18: Surficial Aquifer - Miine Site. Downgradient of Category 1 Stockpile Groundwater Containment System and west of West Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW419 GW-M001: Surficial Aquifer - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW420 GW-M002: Surficial Aquifer - Mine Site. Downgradient of Rail Transfer Hopper/Ore Loading Area	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Chromium, Dissolved (as Cr)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Manganese, Dissolved (as Mn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW421 GW-M003: Surficial Aquifer - Mine Site. Downgradient of OSP	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site.	Chloride, Total					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Category 2/3 Waste Rock Stockpile						month average						
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site.	Magnesium, Dissolved (as Mg)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Downgradient of Category 2/3 Waste Rock Stockpile						month average						
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW422 GW422: Surficial Aquifer - Mine Site. Downgradient of Category 2/3 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW468 GW468: Surficial Aquifer - Mine Site. Downgradient of the West Pit and Category 1 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW470 GW470: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW471 GW471: Possible North Flow Path Bedrock - Mine Site. North of East Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW472 GW472: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW473 GW473: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW477 GW477: Possible North Flow Path Surficial Aquifer - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW478 GW478: Possible North Flow Path Surficial Aquifer - Mine Site. North of West Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW479 GW479: Possible North Flow Path Surficial Aquifer - Mine Site. North of West Pit and the Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)		month average										
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW491 GW491: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW492 GW492: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Hardness, Calcium & Magnesium,					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)	Calculated (as CaCO3)											
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW493 GW493: Surficial Aquifer - Mine Site. Category 2/3 Waste Rock Stockpile underdrain system (if underdrain is installed)	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)		month average										
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
system (if underdrain is installed)												
GW494 GW494: Surficial Aquifer - Mine Site. Category 4 Waste Rock Stockpile underdrain system (if underdrain is installed)	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP	Cadmium, Dissolved (as Cd)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
underdrain system (if underdrain is installed)						month average						
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Hardness, Calcium & Magnesium,					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
	Calculated (as CaCO3)											
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW495 GW495: Surficial Aquifer - Mine Site. OSP underdrain system (if underdrain is installed)	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW499 GW499: Possible North Flow Path Surficial Aquifer - Mine Site. North of East Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient	Beryllium, Dissolved (as Be)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and southeast of Category 2/3 Waste Rock Stockpile						month average						
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient	Solids, Total Dissolved (TDS)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and southeast of Category 2/3 Waste Rock Stockpile						month average						
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW501 BR-1: Bedrock - Mine Site. Downgradient and southeast of Category 2/3 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
		month average										
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW502 GW502: Bedrock - Mine Site. Downgradient of West Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW504 OB-4: Possible North Flow Path Bedrock - Mine Site. Adjacent to and north of East Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW505 OB-5: Possible North Flow Path Bedrock - Mine Site. Adjacent to and northeast of East Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient	Chromium, Dissolved (as Cr)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
and south of Category 2/3 Waste Rock Stockpile						month average						
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient	Manganese, Dissolved (as Mn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
and south of Category 2/3 Waste Rock Stockpile						month average						
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW506 BR-6: Bedrock - Mine Site. Downgradient and south of Category 2/3 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient	Chloride, Total					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of West Pit and Category 1 Waste Rock Stockpile						month average						
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient	Magnesium, Dissolved (as Mg)					Monitor only. calendar		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of West Pit and Category 1 Waste Rock Stockpile						month average						
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW507 OB-1: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Waste Rock Stockpile	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW508 GW508: Possible North Flow Path Bedrock - Mine Site. Between West Pit and Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW509 GW509: Possible North Flow Path Bedrock - Mine Site. North of East Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW510 GW510: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW512 GW512: Bedrock - Mine Site. Downgradient and northeast of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW514 GW514: Bedrock - Mine Site. Downgradient and west of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW515 GW515: Bedrock - Mine Site. Downgradient and north of Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW516 GW516: Bedrock - Mine Site. Downgradient of West Pit and Category 1 Stockpile Groundwater Containment System	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW517 GW517: Possible North Flow Path Bedrock - Mine Site. Downgradient of Category 1 Stockpile Groundwater Containment System	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW518 GW518: Possible North Flow Path Bedrock - Mine Site. North of West Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW519 GW519: Possible North Flow Path Bedrock - Mine Site. North of West Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW521 GW521: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
		month average										
GW522 GW522: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW523 GW523: Possible North Flow Path Bedrock - Mine Site. North of East Pit and north of Mine Site	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Arsenic, Dissolved (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW524 GW524: Bedrock - Mine Site. Downgradient of Equalization Basin Area, OSLA, Category 4 Waste Rock Stockpile, and Central Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Antimony, Dissolved (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient	Arsenic, Dissolved (as As)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
of Category 4 Waste Rock Stockpile and Central Pit						month average						
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Barium, Dissolved (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Beryllium, Dissolved (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Cadmium, Dissolved (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Calcium, Dissolved (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Chromium, Dissolved (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Cobalt, Dissolved (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Copper, Dissolved (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Lead, Dissolved (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Magnesium, Dissolved (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Manganese, Dissolved (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Nickel, Dissolved (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	pH					Monitor only. calendar month average		standard units	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Selenium, Dissolved (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Jul, Oct	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Thallium, Dissolved (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW525 GW525: Bedrock - Mine Site. Downgradient of Category 4 Waste Rock Stockpile and Central Pit	Zinc, Dissolved (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
GW600 GW600: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
piezometers (GW600-GW601)												
GW601 GW601: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW600-GW601)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW602 GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW602 GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW602 GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW602 GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW602-GW603)												
GW602 GW602: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW603 GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW603 GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW603 GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW603 GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW602-GW603)												
GW603 GW603: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW602-GW603)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW604 GW604: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW604-GW605)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW605 GW605: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW604-GW605)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW606 GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW606 GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
System performance monitoring paired wells (GW606-GW607)		month average										
GW606 GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW606 GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW606 GW606: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW607 GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW607 GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW606-GW607)												
GW607 GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW607 GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW607 GW607: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW606-GW607)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW608 GW608: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW608-GW609)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW609 GW609: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired piezometers (GW608-GW609)												
GW610 GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW610 GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW610 GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW610 GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW610 GW610: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW610-GW611)												
GW611 GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW611 GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW611 GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW611 GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW610-GW611)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW611 GW611: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW610-GW611)												
GW612 GW612: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW612-GW613)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW613 GW613: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW612-GW613)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW614 GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW614 GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW614 GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
System performance monitoring paired wells (GW614-GW615)												
GW614 GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW614 GW614: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW615 GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW615 GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW615 GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW614-GW615)												
GW615 GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW615 GW615: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW614-GW615)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW616 GW616: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW616-GW617)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW617 GW617: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW616-GW617)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW618 GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
System performance monitoring paired wells (GW618-GW619)												
GW618 GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW618 GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW618 GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW618 GW618: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW619 GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW618-GW619)												
GW619 GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW619 GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW619 GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	
GW619 GW619: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW618-GW619)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW620 GW620: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
piezometers (GW620-GW621)												
GW621 GW621: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW620-GW621)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW622 GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW622 GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW622 GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW622 GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW622-GW623)												
GW622 GW622: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW623 GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW623 GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW623 GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW623 GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan, Apr, Jul, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
monitoring paired wells (GW622-GW623)												
GW623 GW623: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired wells (GW622-GW623)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan, Apr, Jul, Oct	
GW624 GW624: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW624-GW625)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
GW625 GW625: Surficial Aquifer - Mine Site. Category 1 Stockpile Groundwater Containment System performance monitoring paired piezometers (GW624-GW625)	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					once per month	Measurement	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge	Antimony, Total (as Sb)					Monitor only. calendar		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. WWTS Discharge						month average						
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Arsenic, Total (as As)					500 calendar month average	1000 daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Cadmium, Total (as Cd)					50 calendar month average	100 daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Calcium, Total (as Ca)					Monitor only. calendar month average	Monitor only. daily maximum	milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Copper, Total (as Cu)					150 calendar month average	300 daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximum	million gallons per day	once per day	Measurement	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average	Monitor only. daily maximum	milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Iron, Dissolved (as Fe)					1.0 calendar month average	2.0 daily maximum	milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Lead, Total (as Pb)					300 calendar month average	600 daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Magnesium, Total (as Mg)					Monitor only. calendar month average	Monitor only. daily maximum	milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge	Manganese, Total (as Mn)					Monitor only. calendar		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. WWTS Discharge						month average						
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Mercury, Dissolved (as Hg)					Monitor only. calendar quarter average		nanograms per liter	once per quarter	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Mercury, Total (as Hg)					1000 calendar month average	2000 daily maximum	nanograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Nickel, Total (as Ni)					Monitor only. calendar month average	Monitor only. daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	twice per year	24-Hour Flow Composite	Mar, Sep	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	twice per year	24-Hour Flow Composite	Mar, Sep	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	twice per year	24-Hour Flow Composite	Mar, Sep	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	pH				6.0 calendar month minimum		9.0 calendar month maximum	standard units	once per week	Measurement, Continuous	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Silver, Total (as Ag)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Solids, Total Suspended (TSS)					20 calendar month average	30 daily maximum	milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Specific Conductance					Monitor only. calendar month average	Monitor only. daily maximum	micromhos per cm	once per week	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD001 SD001: WWTS Surface Water Discharge Monitoring - Plant Site. WWTS Discharge	Zinc, Total (as Zn)					500 calendar month average	1000 daily maximum	micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD002 SD002: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Unnamed Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SD002 SD002: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Unnamed Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD003 SD003: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Unnamed Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD003 SD003: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Unnamed Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD004 SD004: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD004 SD004: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD005 SD005: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD005 SD005: WWTS Surface Water Discharge	Flow		Monitor only.	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek			calendar month total									
SD006 SD006: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD006 SD006: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD007 SD007: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD007 SD007: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD008 SD008: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD008 SD008: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SD009 SD009: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD009 SD009: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD010 SD010: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD010 SD010: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Headwater wetlands of Trimble Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SD011 SD011: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Second Creek	Flow		Monitor only. daily maximum	million gallons		Monitor only. calendar month average		million gallons per day	once per day	Measurement, Instantaneous	Jan-Dec	
SD011 SD011: WWTS Surface Water Discharge Monitoring - Plant Site. Discharge - Second Creek	Flow		Monitor only. calendar month total	million gallons					once per month	Measurement, Instantaneous	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring -	Aluminum, Total (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Plant Stie. Downstream - Unnamed Creek						month average						
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring -	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Plant Stie. Downstream - Unnamed Creek						month average						
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW003 PM-11/SW003: Surface Water Monitoring - Plant Stie. Downstream - Unnamed Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring -	Mercury, Total (as Hg)					Monitor only. calendar		nanograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Plant Site. Downstream - Embarrass River						month average						
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW005 PM-13/SW005: Surface Water Monitoring - Plant Site. Downstream - Embarrass River	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW006 TC-1a: Surface Water Monitoring - Plant	Cobalt, Total (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Trimble Creek						month average						
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW006 TC-1a: Surface Water Monitoring - Plant Site. Downstream - Trimble Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW007 MLC-1: Surface Water Monitoring - Plant Site. Downstream - Unnamed (Mud Lake) Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant	Antimony, Total (as Sb)					Monitor only. calendar		micrograms per liter	once per month	Grab	May, Sep	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Background - Embarrass River						month average						
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW008 PM-12.2: Surface Water Monitoring - Plant	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Background - Embarrass River						month average						
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW008 PM-12.2: Surface Water Monitoring - Plant Site. Background - Embarrass River	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Flow					Monitor only. annual median		million gallons per day	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring -	Nickel, Total (as Ni)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Plant Site. Downstream - Second Creek						month average						
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW020 PM-7/SW026: Surface Water Monitoring - Plant Site. Downstream - Second Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring -	Copper, Total (as Cu)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Mine Site. Background - Partridge River						month average						
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW402 PM-2/SW002: Surface Water Monitoring - Mine Site. Background - Partridge River	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine	Bicarbonates (HCO3)					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Wetlegs Creek						month average						
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW407 WL-1: Surface Water Monitoring - Mine Site. Downstream - Wetlegs Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW407 WL-1: Surface Water Monitoring - Mine	Zinc, Total (as Zn)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Wetlegs Creek						month average						
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine	Selenium, Total (as Se)					Monitor only. calendar		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Longnose Creek						month average						
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW408 LN-1: Surface Water Monitoring - Mine Site. Downstream - Longnose Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Wyman Creek	Calculated (as CaCO3)					month average						
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW409 PM-5: Surface Water Monitoring - Mine Site. Downstream - Wyman Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW410 PM-6B: Surface Water Monitoring - Mine	Chloride, Total					Monitor only. calendar		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Background - Wyman Creek						month average						
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW410 PM-6B: Surface Water Monitoring - Mine Site. Background - Wyman Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine	Aluminum, Total (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SIte. Background - Longnose Creek						month average						
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW411 LN-2: Surface Water Monitoring - Mine Site. Background - Longnose Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine	Specific Conductance					Monitor only. calendar		micromhos per cm	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SIte. Background - Longnose Creek						month average						
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW411 LN-2: Surface Water Monitoring - Mine SIte. Background - Longnose Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine	Mercury, Total (as Hg)					Monitor only. calendar		nanograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Background - Wetlegs Creek						month average						
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW412 WL-2: Surface Water Monitoring - Mine Site. Background - Wetlegs Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW413 SW004c: Surface Water Monitoring - Mine	Cobalt, Total (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - Partridge River						month average						
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Site. Downstream - Partridge River	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW413 SW004c: Surface Water Monitoring - Mine Slte. Downstream - Partridge River	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Aluminum, Dissolved (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW414 SW414: Surface Water Monitoring - Mine	Arsenic, Total (as As)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - West Pit Outlet Creek						month average						
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Flow					Monitor only. calendar month average		million gallons per day	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Lead, Total (as Pb)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	May, Sep	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
SW414 SW414: Surface Water Monitoring - Mine	Thallium, Total (as Tl)					Monitor only. calendar		micrograms per liter	once per month	Grab	May, Sep	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Site. Downstream - West Pit Outlet Creek						month average						
SW414 SW414: Surface Water Monitoring - Mine Site. Downstream - West Pit Outlet Creek	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Magnesium, Total (as Mg)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS001 WS001: Internal Waste Stream Monitoring - Plant Site. FTB Pond	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring -	Boron, Total (as B)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Plant Site. FTB Seepage Containment System						month average						
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Magnesium, Total (as Mg)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS002 WS002: Internal Waste Stream Monitoring - Plant Site. FTB Seepage Containment System	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South	Aluminum, Total (as Al)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Seepage Management System.						month average						
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South	Cobalt, Total (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Seepage Management System.						month average						
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Magnesium, Total (as Mg)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South	pH					Monitor only. calendar		standard units	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Seepage Management System.						month average						
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS003 WS003: Internal Waste Stream Monitoring - Plant Site. FTB South Seepage Management System.	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Barium, Total (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Cobalt, Total (as Co)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS004 WS004: Internal Waste Stream Monitoring - Plant Site. HRF Pond	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Antimony, Total (as Sb)					Monitor only. calendar		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
						month average						
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Barium, Total (as Ba)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jul	
WS005 WS005: Internal Waste Stream Monitoring - Plant Site. HRF Leachate	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS009 WS009: Internal Waste Stream Monitoring - Plant Site. Sewage	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar		milligrams per liter	twice per week	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Treatment Stabilization Ponds						month average						
WS009 WS009: Internal Waste Stream Monitoring - Plant Site. Sewage Treatment Stabilization Ponds	Fecal Coliform, MPN or Membrane Filter 44.5C	Monitor only. calendar month geometric mean		# of samples >23 organisms per 100 mL					twice per week	Grab	Jan-Dec	
WS009 WS009: Internal Waste Stream Monitoring - Plant Site. Sewage Treatment Stabilization Ponds	Flow	Monitor only. calendar month average		million gallons		Monitor only. annual median		million gallons per day	twice per week	Measurement	Jan-Dec	
WS009 WS009: Internal Waste Stream Monitoring - Plant Site. Sewage Treatment Stabilization Ponds	pH					Monitor only. calendar month average		standard units	twice per week	Grab	Jan-Dec	
WS009 WS009: Internal Waste Stream Monitoring - Plant Site. Sewage Treatment Stabilization Ponds	Solids, Total Suspended (TSS)					Monitor only. calendar month average		milligrams per liter	twice per week	Grab	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream	Arsenic, Total (as As)					Monitor only. calendar		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)						month average						
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream	Chromium, Total (as Cr)					Monitor only. calendar		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)						month average						
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream	Magnesium, Total (as Mg)					Monitor only. calendar		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)						month average						
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Mercury, Dissolved (as Hg)						Monitor only. calendar quarter maximum	nanograms per liter	once per quarter	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	pH					Monitor only. calendar month average		standard units	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream	Silver, Total (as Ag)					Monitor only. calendar		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)						month average						
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Solids, Total Suspended (TSS)						Monitor only. calendar quarter maximum	nanograms per liter	once per quarter	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS015 WS015: WWTS Internal Waste Stream	Zinc, Total (as Zn)					Monitor only. calendar		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Monitoring - Plant Site. Influent to WWTS (FTB Seepage Capture Systems)						month average						
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
(Chemical Precipitation Treatment Train)												
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Calcium, Total (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
(Chemical Precipitation Treatment Train)												
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
(Chemical Precipitation Treatment Train)												
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
(Chemical Precipitation Treatment Train)												
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Silver, Total (as Ag)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
(Chemical Precipitation Treatment Train)												
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS072 WS072: WWTS Internal Waste Stream Monitoring - Plant Site. WWTS Mine Water Treatment Effluent (Chemical Precipitation Treatment Train)	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Calcium, Total (as Ca)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Silver, Total (as Ag)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS073 WS073: WWTS Internal Waste Stream Monitoring - Plant Site. Mine Water Treatment Effluent (Membrane Filtration Treatment Train)	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Arsenic, Total (as As)					53 calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Cobalt, Total (as Co)					5.0 calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Copper, Total (as Cu)					9.3 calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Lead, Total (as Pb)					3.2 calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site.	Mercury, Total (as Hg)					1.3 calendar month average		nanograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Internal WWTS Performance Monitoring												
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Nickel, Total (as Ni)					52 calendar month average		micrograms per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Sulfate, Total (as SO4)					10.0 12-month moving average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS074 WS074: WWTS Internal Waste Stream Monitoring - Plant Site. Internal WWTS Performance Monitoring	Sulfate, Total (as SO4)					9.0 calendar month average intervention		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Chloride, Total					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. East Pit Dewatering						month average						
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					twice per month	Measurement	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Mercury, Total (as Hg)					Monitor only. calendar		nanograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. East Pit Dewatering						month average						
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS401 WS401: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. East Pit Dewatering	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Arsenic, Total (as As)					Monitor only. calendar		micrograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. West Pit Dewatering						month average						
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Flow	Monitor only. calendar		million gallons		Monitor only. calendar		million gallons per day	twice per month	Grab	Jan-Dec	

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		Discharge limitations						Monitoring requirements				
Subject item	**Parameter**	**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**	**Notes**
Dewatering. West Pit Dewatering		month average				month average						
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Specific Conductance					Monitor only. calendar		micromhos per cm	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. West Pit Dewatering						month average						
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS402 WS402: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Cobalt, Total (as Co)					Monitor only. calendar		micrograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. West Pit Dewatering						month average						
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					twice per month	Measurement	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Nickel, Total (as Ni)					Monitor only. calendar		micrograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. West Pit Dewatering						month average						
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS403 WS403: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. West Pit Dewatering	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Bicarbonates (HCO3)					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. Central Pit Dewatering						month average						
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Elevation of GW Relative to Mean Sea Level	Monitor only. calendar month average		feet					twice per month	Measurement	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. Central Pit Dewatering	Calculated (as CaCO3)					month average						
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Dewatering. Central Pit Dewatering						month average						
WS404 WS404: Internal Waste Stream Monitoring - Mine Site. Mine Pit Dewatering. Central Pit Dewatering	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Waste Rock Stockpile GW Containment System												
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Waste Rock Stockpile GW Containment System												
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS411 WS411: Internal Waste Stream Monitoring - Mine Site. Waste Rock Stockpiles, Category 1 Waste Rock Stockpile GW Containment System	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Waste Rock Stockpile GW Containment System												
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1	Hardness, Calcium & Magnesium,					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Waste Rock Stockpile GW Containment System	Calculated (as CaCO3)					month average						
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1	Sulfate, Total (as SO4)					Monitor only. calendar		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
Waste Rock Stockpile GW Containment System						month average						
WS412 WS412: Internal Waste Stream Monitoring - Mine Site. Category 1 Waste Rock Stockpile GW Containment System	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS413 WS413: Internal Waste Stream Monitoring - Mine Site. OSLA Runoff	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS413 WS413: Internal Waste Stream Monitoring - Mine Site. OSLA Runoff	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS413 WS413: Internal Waste Stream Monitoring - Mine Site. OSLA Runoff	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS413 WS413: Internal Waste Stream Monitoring - Mine Site. OSLA Runoff	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS414 WS414: Internal Waste Stream Monitoring - Mine Site. Construction Mine Water Basin	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS414 WS414: Internal Waste Stream Monitoring - Mine Site. Construction Mine Water Basin	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS414 WS414: Internal Waste Stream Monitoring - Mine Site. Construction Mine Water Basin	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS414 WS414: Internal Waste Stream Monitoring - Mine Site. Construction Mine Water Basin	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine SIte. Influent to WWTS (Low Concentration Mine Water)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Silver, Total (as Ag)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS415 WS415: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (Low Concentration Mine Water)	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Aluminum, Total (as Al)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Antimony, Total (as Sb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Beryllium, Total (as Be)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Boron, Total (as B)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Calcium, Total (as Ca)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Chloride, Total					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Chromium, Total (as Cr)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Fluoride, Total (as F)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Iron, Total (as Fe)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Magnesium, Total (as Mg)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Manganese, Total (as Mn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	pH					Monitor only. calendar month average		standard units	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Selenium, Total (as Se)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Silver, Total (as Ag)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Sodium, Total (as Na)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Apr, Oct	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Specific Conductance					Monitor only. calendar month average		micromhos per cm	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Thallium, Total (as Tl)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Apr, Oct	
WS416 WS416: WWTS Internal Waste Stream Monitoring - Mine Site. Influent to WWTS (High Concentration Mine Water)	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS421 WS421: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS422 WS422: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS423 WS423: Internal Waste Stream Monitoring - Mine Site. Category 2/3 Waste Rock Stockpile Drainage	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS424 WS424: Internal Waste Stream Monitoring - Mine Site. Category 4 Waste Rock Stockpile Drainage	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Arsenic, Total (as As)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Bicarbonates (HCO3)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Cadmium, Total (as Cd)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Chloride, Total					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Cobalt, Total (as Co)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Copper, Total (as Cu)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Flow	Monitor only. calendar month average		million gallons		Monitor only. calendar month average		million gallons per day	twice per month	Measurement	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Hardness, Calcium & Magnesium, Calculated (as CaCO3)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	

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		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**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**	**Notes**
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Lead, Total (as Pb)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Mercury, Total (as Hg)					Monitor only. calendar month average		nanograms per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Nickel, Total (as Ni)					Monitor only. calendar month average		micrograms per liter	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	pH					Monitor only. calendar month average		standard units	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Solids, Total Dissolved (TDS)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Specific Conductance					Monitor only. calendar month average		micromhos per cm	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jan-Dec	
WS425 WS425: Internal Waste Stream Monitoring - Mine Site. Ore Surge Pile Drainage	Zinc, Total (as Zn)					Monitor only. calendar month average		micrograms per liter	once per month	Grab	Jan-Dec	

Figure 7.1: Location of WWTS Surface Water Discharge Monitoring Stations SD001 – SD011 and WWTS Internal Waste Stream Monitoring Stations WS074, WS015 and WS072 – WS073

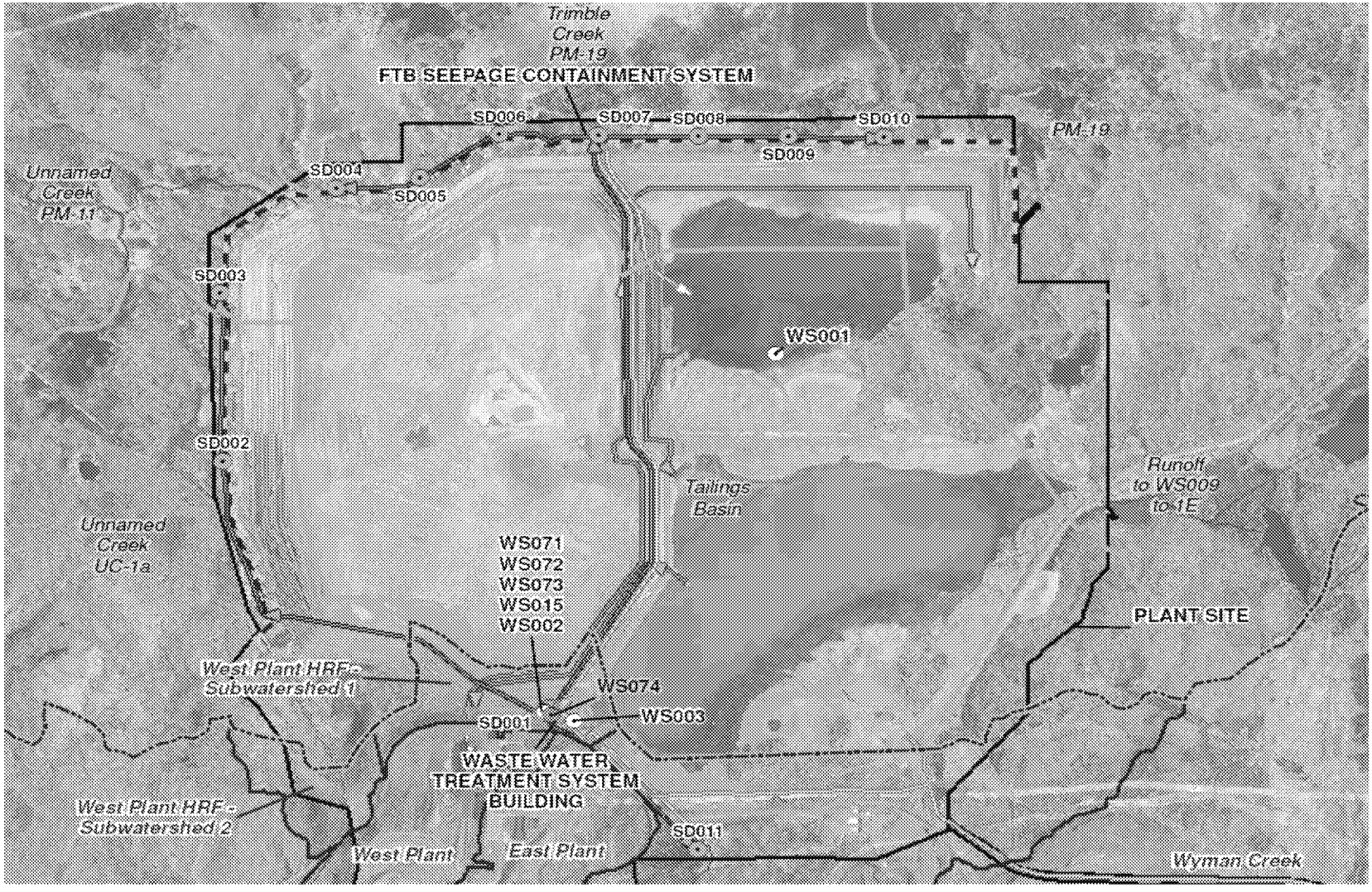

Figure 7.2: Location of WWTS Internal Waste Stream Monitoring Stations WS415 and WS416

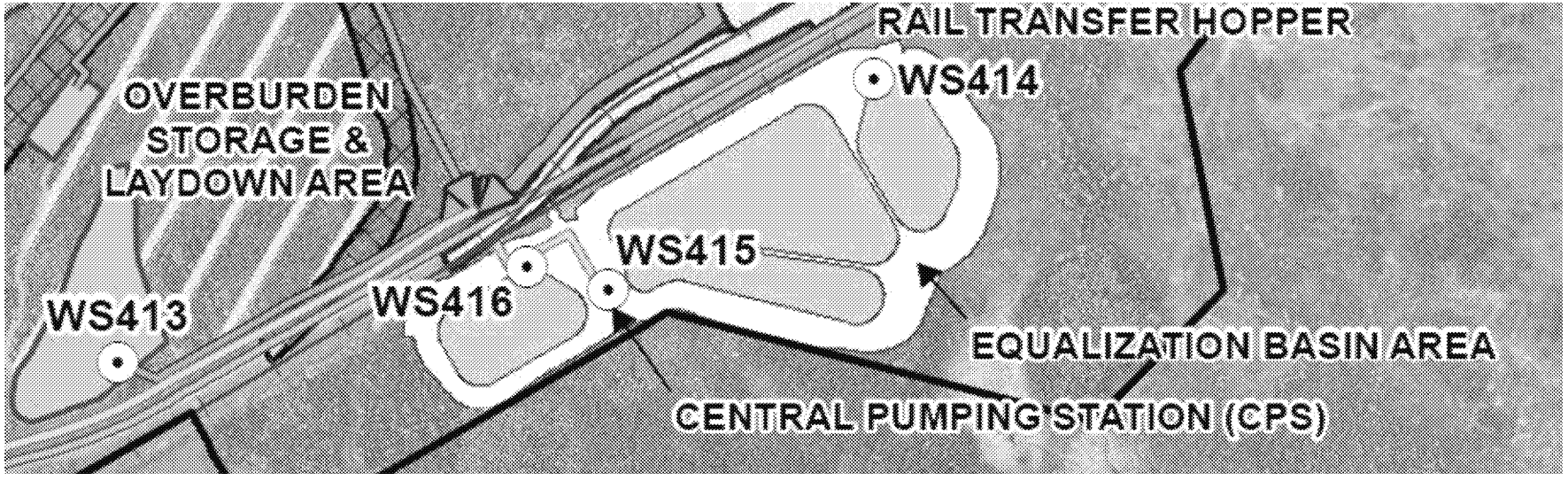

Figure 7.3: Location of Mine Site Internal Waste Stream Monitoring Stations (WS401-WS404; WS411-WS414; WS421-WS425)

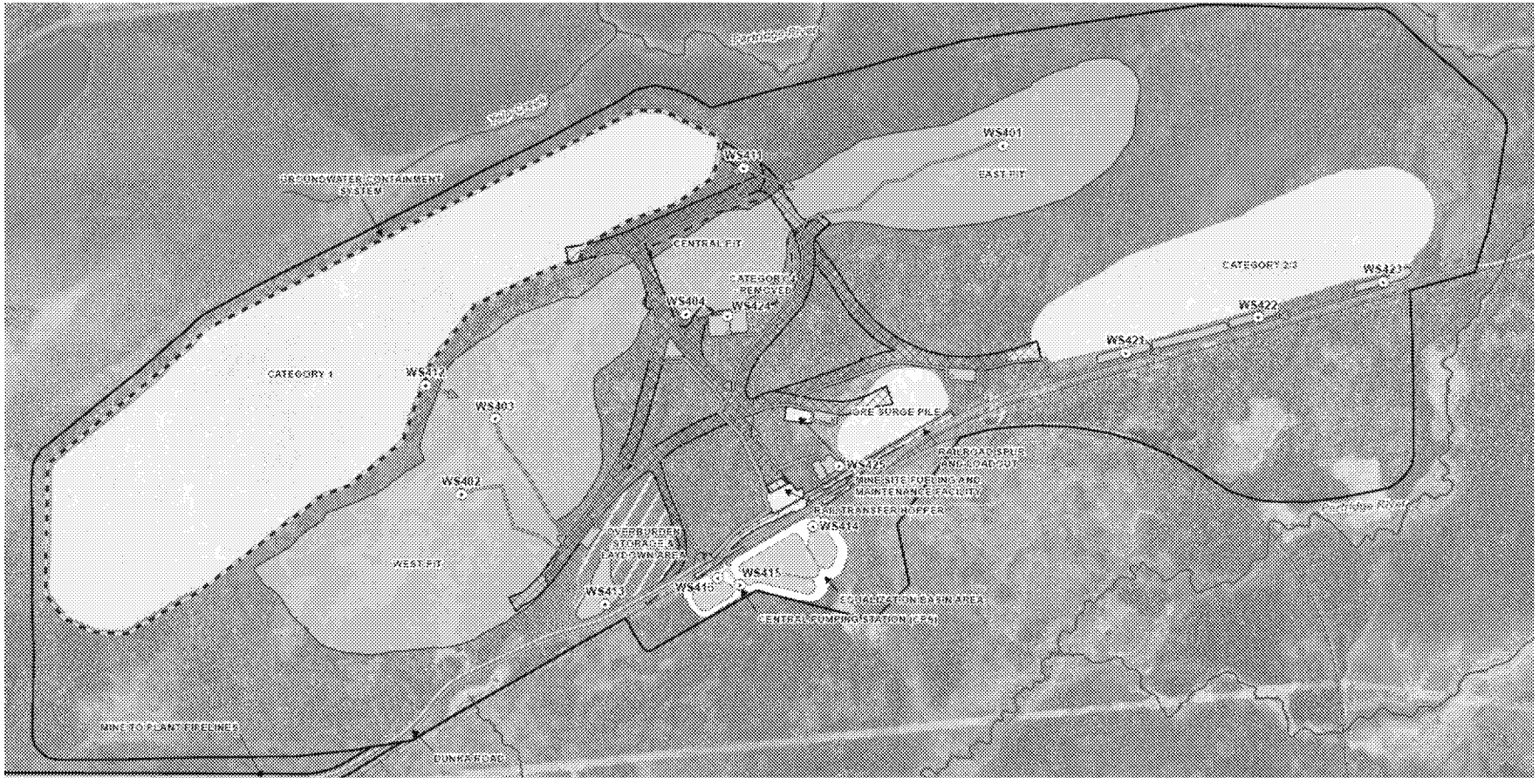

Figure 7.4: Location of Category 1 Groundwater Containment System Monitoring Well & Piezometer Stations (GW600-GW625)

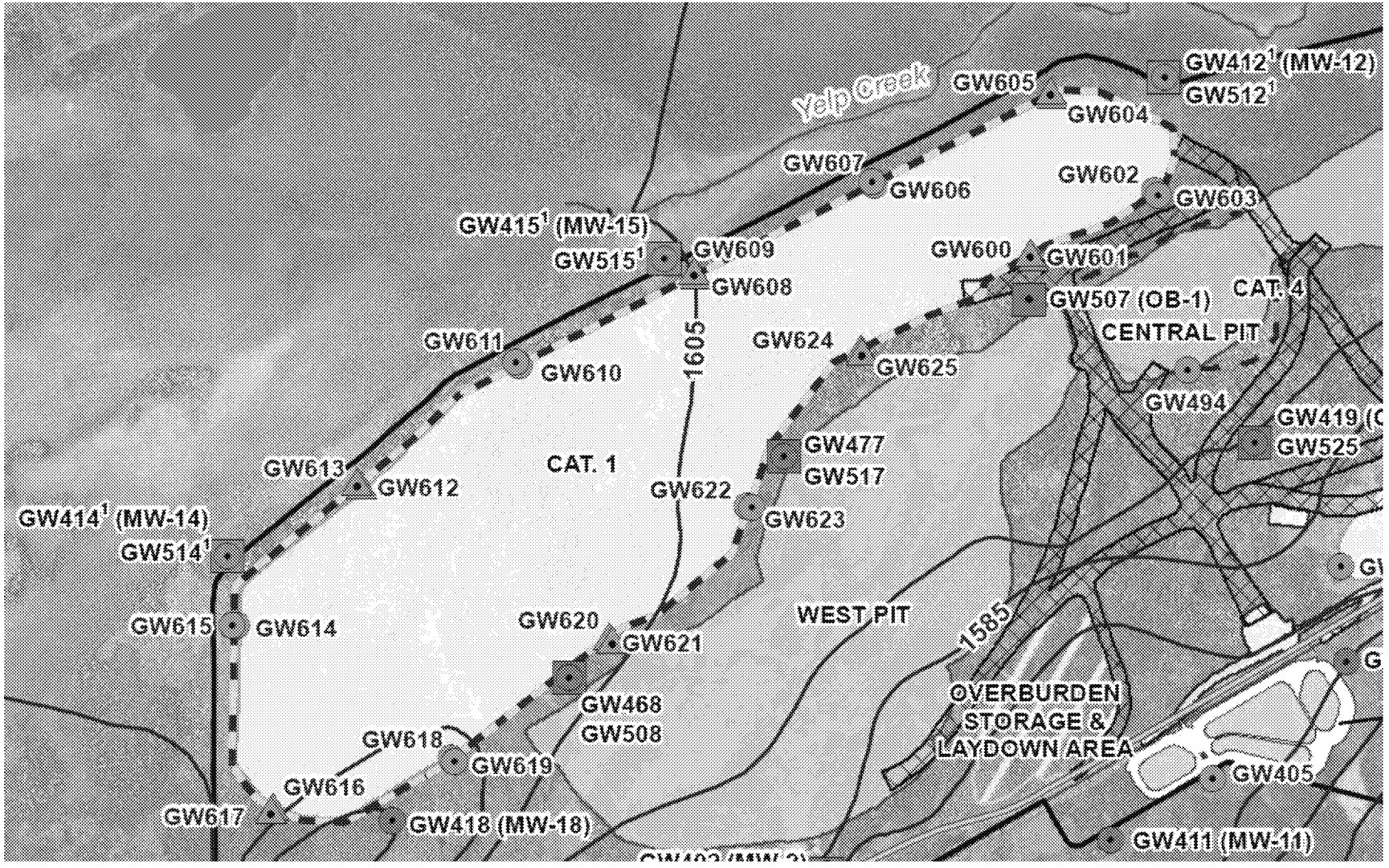

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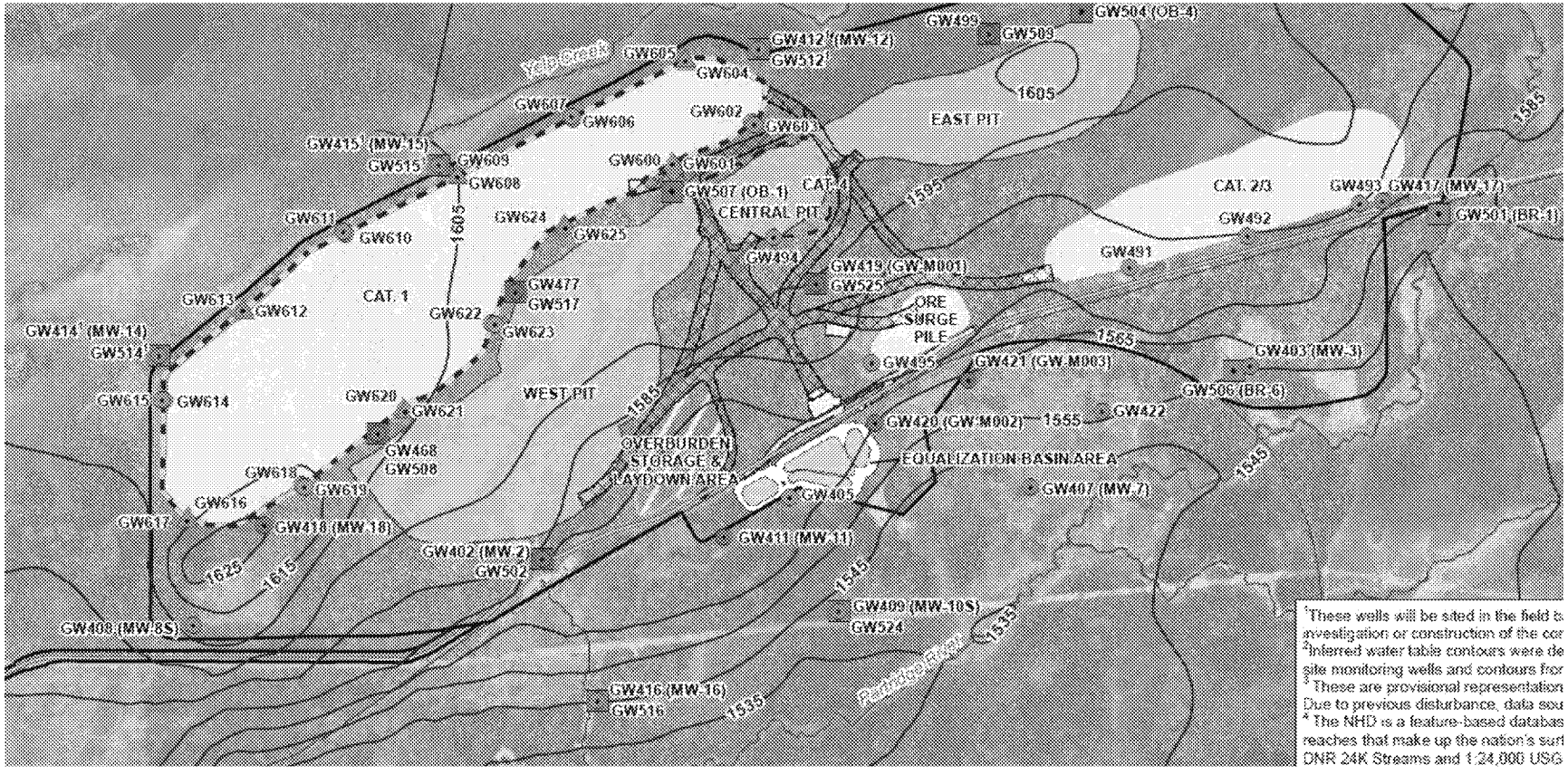
Figure 7.5: Location of Mine Surficial and Bedrock Groundwater Monitoring Well Stations

Groundwater Monitoring – Surficial Aquifer

GW402, GW403, GW405, GW407, GW408, GW409, GW411, GW412, GW414, GW415, GW416, GW417, GW418, GW419, GW420, GW421, GW422, GW468, GW491, GW492, GW493, GW494, GW495

Groundwater Monitoring – Bedrock Aquifer

GW501, GW502, GW506, GW507, GW512, GW514, GW515, GW516, GW524, GW525



[1]These wells will be sited in the field b
investigation or construction of the cor
[2]Inferred water table contours were de
site monitoring wells and contours fror
[3] These are provisional representation
Due to previous disturbance, data sou
[4] The NHD is a feature-based databas
reaches that make up the nation's surf
DNR 24K Streams and 1:24,000 USG

Figure 7.6: Mine Site Groundwater Monitoring

North Flow Path Surficial Aquifer: GW470, GW471, GW472, GW473, GW477, GW478, GW479, GW499

North Flow Path Bedrock Aquifer: GW504, GW505, GW508, GW509, GW510, GW517, GW518, GW519, GW521, GW522, GW523

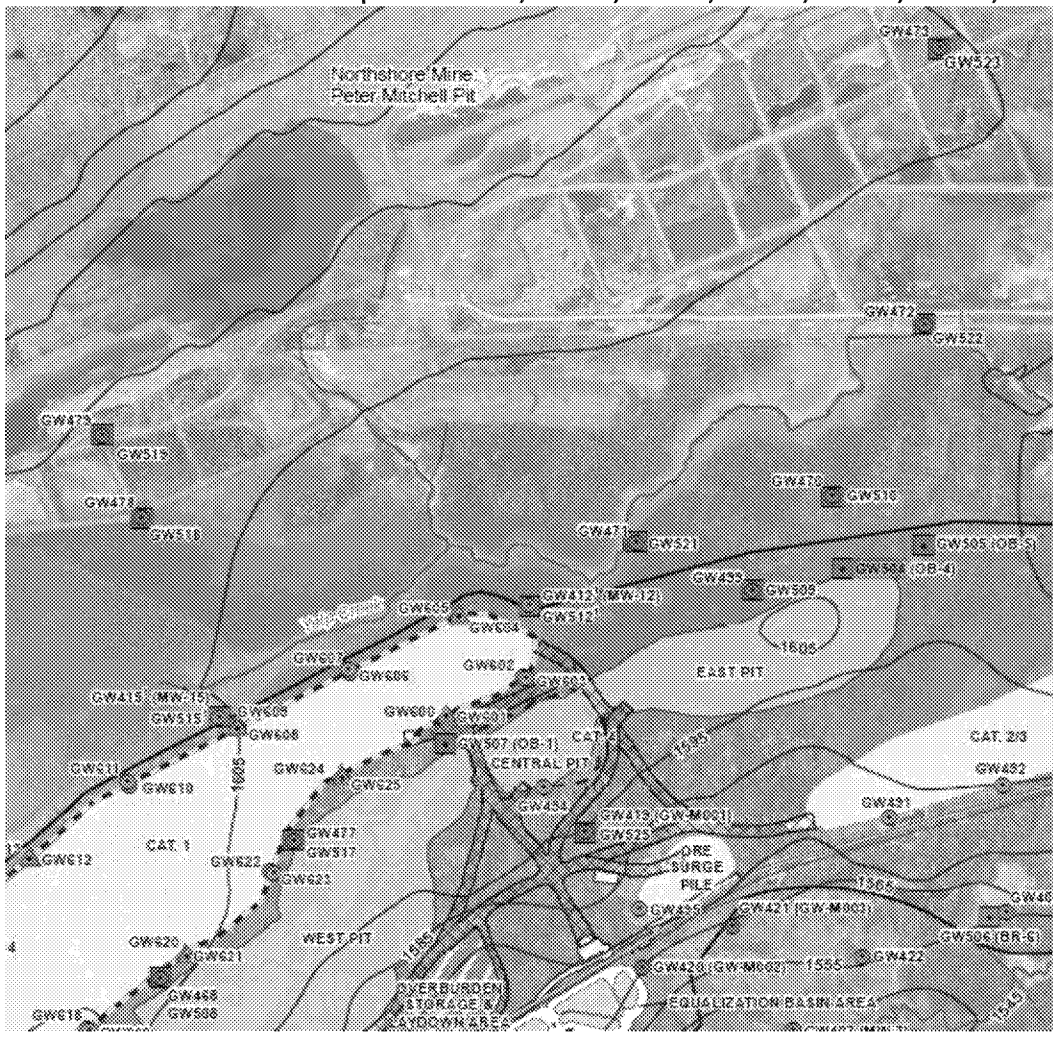


Figure 7.7: Location of Mine Site Surface Water Monitoring Stations (SW402, SW407, SW408, SW409, SW410, SW411, SW412, SW413, SW414)

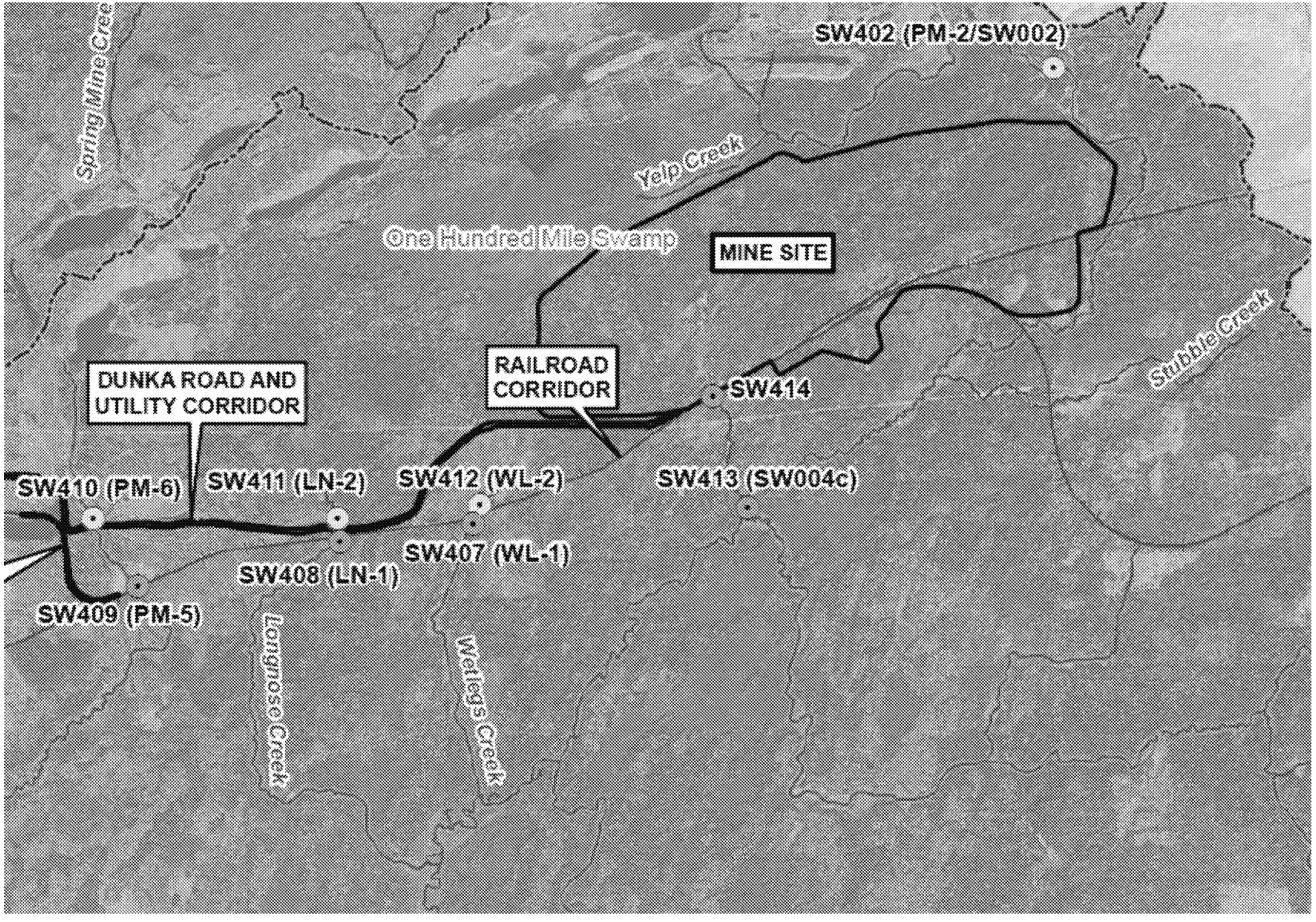


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Figure 7.8: Location of Plant Site Internal Waste Stream Monitoring Stations: FTB, HRF and Sewage Treatment (WS001-WS005, WS009)

the current paper regulatory maps.
at no longer exist.
ly identifies the stream segments or
D features are created from

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Figure 7.9: Location of FTB Seepage Containment System Groundwater Monitoring Stations (GW200-GW223; GW236-GW237)

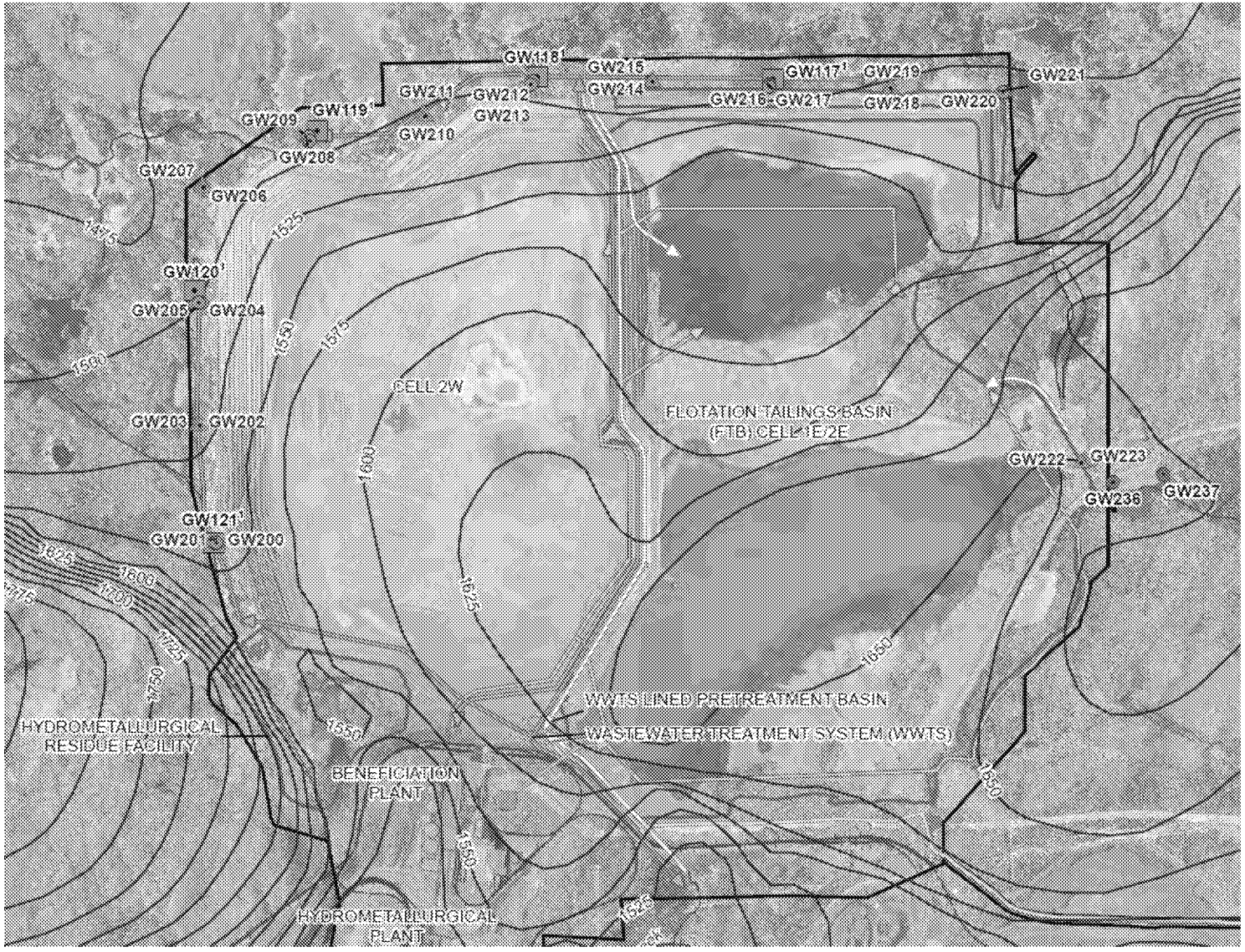

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Figure 7.10: Location of Plant Site Surficial and Bedrock Groundwater Monitoring Well Stations

Surficial Aquifer: GW002, GW009, GW010, GW015, GW016

Bedrock Wells: GW109, GW110, GW115, GW116, GW117, GW118, GW119, GW120, GW121

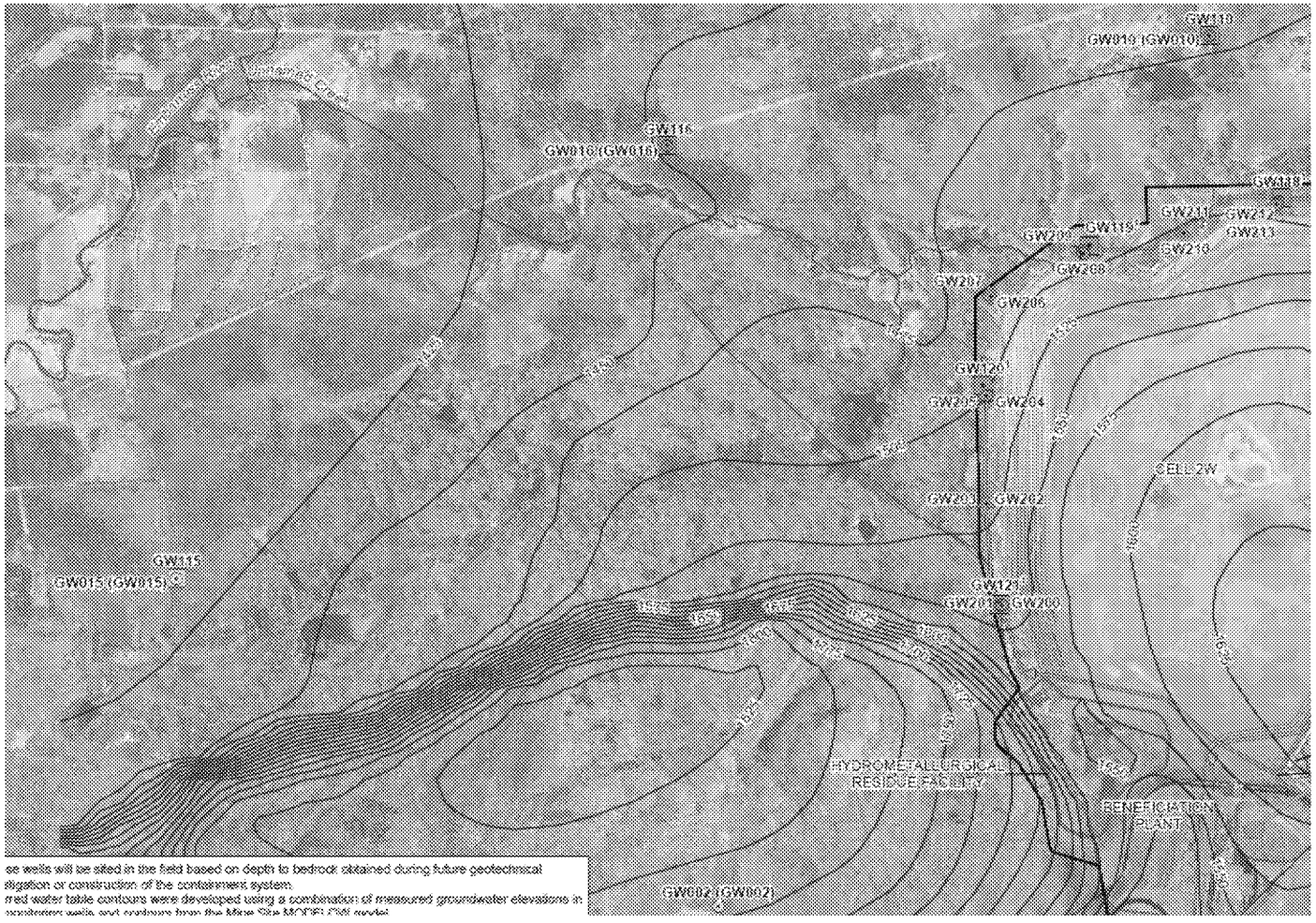
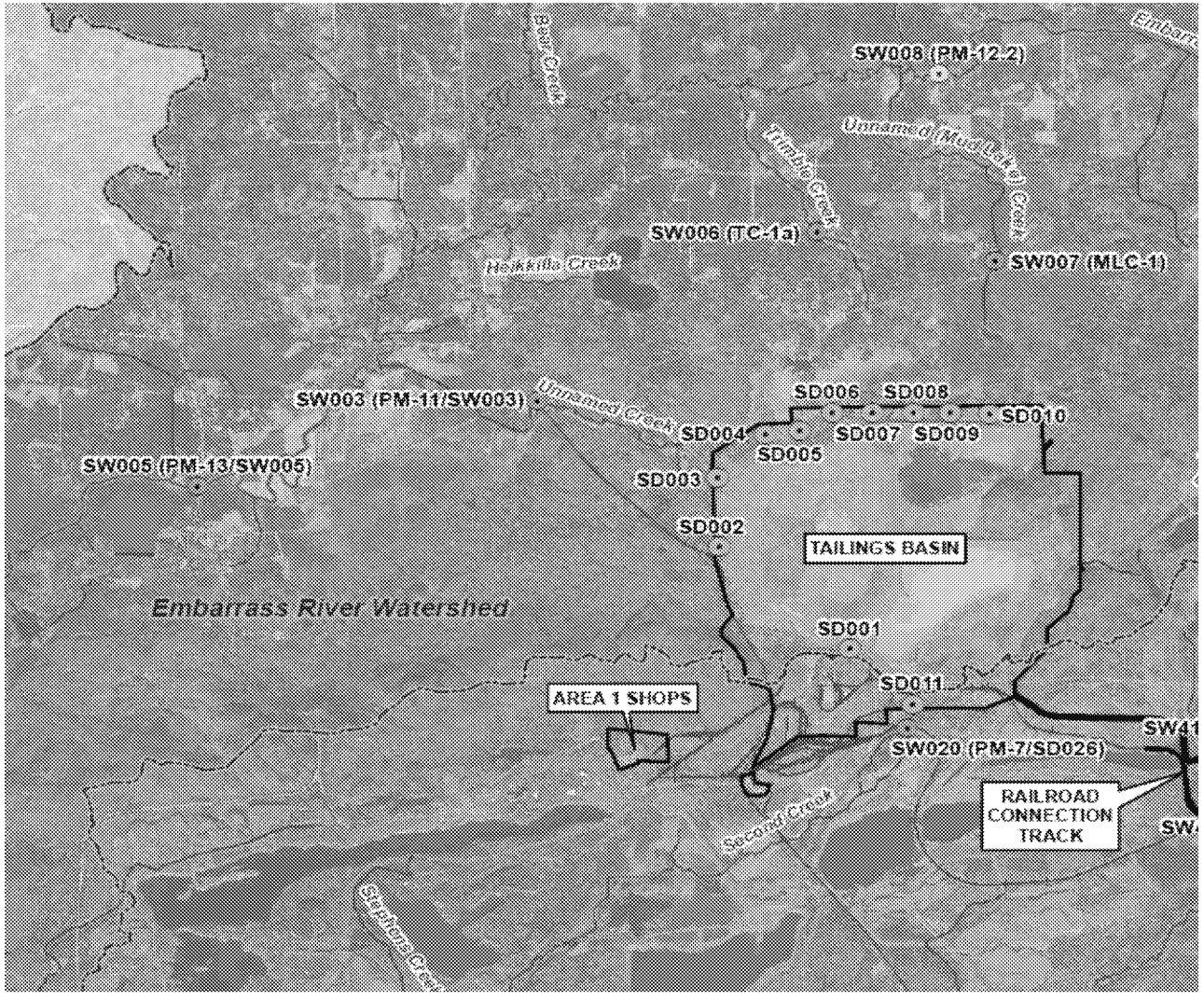


Figure 7.11: Location of Plant Site Surface Water Monitoring Stations (SW003, SW005, SW006, SW007, SW008, SW020)



Attachment 1. Chemical Additives

Mine Site

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Magnesium Chloride Aqueous Solution (Dustguard)	Dust Suppressant	Mine Site: Haul roads and stockpiles, if needed	2 -3 times/year	104,428 gallons/day 208,856 gallons/yr	104,428 gallons/day 313,284 gallons/yr
Calcium Chloride	De-icer	Walkways, haul roads	As needed	N/A	TBD based on recommended application rates

Wastewater Treatment System

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Sodium Permangate Solution	Filter Pretreatment	Tailings Basin Seepage Treatment Train greensand filter	Continuous	57 pounds/day	230 pounds/day
Sodium Permangate Solution	Filter Pretreatment	Mine Water Treatment Trains greensand filter	Continuous	12 pounds/day	15 pounds/day
Carbon Dioxide	pH Adjustment	Tailings Basin Seepage Train Secondary Membranes	Continuous	5 tons/day	10 tons/day
Carbon Dioxide	pH Adjustment	Re-carbonation at mine water treatment trains & secondary membranes at mine water treatment trains	Continuous	5 tons/day	5 tons/day
Hydrated Lime	pH Adjustment	HDS metals removal at mine water treatment trains.	Continuous	5 tons/day	5 tons/day
Hydrated Lime	pH Adjustment	Sulfate removal at mine water treatment trains	Continuous	5 tons/day	6 tons/day
Hypersperse MSI410 (Suez)	Membrane Deposit Control Agent	Tailings Basin Seepage Train Primary Membranes	Continuous	59 pounds/day	65 pounds/day
Hypersperse MSI410 (Suez)	Membrane Deposit Control Agent	Mine Water Treatment Trains Primary Membranes	Continuous	11 pounds/day	12 pounds/day
NLR 759	Phosphoric Acid Antiscalant	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	3 gallons/day	3 gallons/day

Wastewater Treatment System

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
NLR 759 (Primary)	Phosphoric Acid Antiscalant	Mine Water Treatment Trains Secondary Membranes	Continuous	4 gallons/day	4 gallons/day
Sodium Bisulfate	Oxidant-Quenching Membrane Pre-treatment	Tailings Basin Seepage Treatment Train Primary Membranes	Continuous	27 pounds/day	39 pounds/day
Sodium Bisulfate	Oxidant-Quenching Membrane Pre-treatment	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	7 pounds/day	7 pounds/day
Sodium Bisulfate	Oxidant-Quenching Membrane Pre-treatment	Mine Water Treatment Trains Primary Membranes	Continuous	5 pounds/day	6 pounds/day
Sodium Bisulfate	Oxidant-Quenching Membrane Pre-treatment	Mine Water Treatment Trains Secondary Membranes	Continuous	3 pounds/day	3 pounds/day
Kleen MCT103 (Suez)	Low pH Reverse Osmosis Membrane Cleaner	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	7,500 pounds/year	8,000 pounds/year
Kleen MCT103 (Suez)	Low pH Reverse Osmosis Membrane Cleaner	Mine Water Treatment Trains Primary Membranes	Continuous	1,600 pounds/year	1,600 pounds/year
Kleen MCT515 (Suez)	High pH Membrane Cleaner	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	7,500 pounds/year	8,000 pounds/year
Kleen MCT515 (Suez)	High pH Membrane Cleaner	Mine Water Treatment Trains Primary Membranes	Continuous	1,600 pounds/year	1,600 pounds/year
NLR 404	Organic Acid Membrane Cleaner	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	10 gallons/day	11 gallons/day
NLR 404	Organic Acid Membrane Cleaner	Mine Water Treatment Trains Secondary Membranes	Continuous	9,000 gallons/year	9,000 gallons/year
NLR 505	Alkaline surfactant Membrane Cleaner	Tailings Basin Seepage Treatment Train Secondary Membranes	Continuous	10 gallons/day	11 gallons/day
NLR 505	Alkaline surfactant Membrane Cleaner	Mine Water Treatment Trains Secondary Membranes	Continuous	9,000 gallons/year	9,000 gallons/year
Granular Calcite	Effluent Stabilization	Tailings Basin Seepage Treatment Train Limestone Contactor	Continuous	900 pounds/day	2,000 pounds/day

Sewage Treatment Plant & Plant Site Water Treatment

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Magnesium Chloride Aqueous Solution (Dustguard)	Dust Suppressant	Haul roads	2 -3 times/year	98,323 gallons/day 128,691 gallons/yr	98,323 gallons/day 296,469 gallons/yr
Calcium Chloride	De-icer	Walkways, haul roads	As needed	N/A	TBD based on recommended application rates
BT-205W Anionic / Nonionic Surfactant Blend	Dust suppressant	Conveyor transfer points	1 time/year as needed	N/A	
Aluminum Sulfate, 50% Solution	Coagulant	Flocculator	Continuous	47 pounds/day 17,155 pounds/yr	190 pounds/day 69,350 pounds/yr
Potassium Permangate	Oxidant	Flocculator	Continuous	12 pounds/day 4,380 pounds/yr	74 pounds/day 27,010 pounds/yr
Ammonia	Disinfectant (Chloramines)	Clearwell	Continuous (as needed)	0.07 pounds/day 25.55 pounds/yr	02 pounds/day 73 pounds/yr
Chlorine	Disinfectant	Filter and CLearwell	Continuous	0.8 pounds/day 292 pounds/year	2.5 pounds/day 912.5 pounds/year
Liquid Alum	Coagulant	Sewage Treatment System Stabilization Ponds	3 times/year as needed	90 gallons/year	150 gallons/year

Tailings Basin

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Lime Slurry (Primary)	pH Modifier: Used to regulate pH in the flotation circuit	Flotation Circuit, specifically the Separation Cleaner Flotation Cells	Continuous	28.15 tons/day 10,274 tons/yr	41.10 tons/day 15,000 tons/yr
MIBC (Methyl Isobutyl Carbinol, 100% Solution) (Primary)	Frother: Used to improve stability of froth bubbles as they rise through the flotation cells	Flotation Circuit, specifically the Flotation Roughers, Scavengers, and Cleaner Flotation Cells	Continuous	2.88 tons/day 1,050 tons/yr)	4.11 tons/day 1,500 tons/yr)

Tailings Basin

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
SIPX (Sodium Isopropyl Xanthate) (Primary)	Collector: Selectively adsorb minerals based on hydrophobicity of the collector & mineral	Flotation Circuit, specifically the Flotation Roughers, Scavengers, and Cleaner Circuit	Continuous	2.74 tons/day (1,000 tons/yr)	4.79 tons/day (1,750 tons/yr)
CMC (Carboxyl Methyl Cellulose Tennapress PE26) Primary	Flocculant: Used to depress gangue minerals in flotation cells to improve selectivity towards Cu Ni minerals	Flotation Circuit, specifically Rougher and Pyrhotite Cleaner Flotation Cells	Continuous	3.29 tons/day 1,200 tons/yr	4.79 tons/day 1,750 tons/year
Copper Sulfate Pentahydrate (Primary)	Activator: Used to increase the available adsorption sites on the mineral to allow for adsorption by the collector	Flotation Circuit, specifically the Scavenger Cells	Continuous	1.71 tons/day 625 tons/yr	2.05 tons/day 750 tons/yr
MagnaFloc 10 (Primary)	Flocculant: Promote flocculation of suspended particles in liquors	Flotation Circuit, specifically the Concentrate Thickeners	Continuous	0.082 tons/day 30 tons/yr	0.14 tons/day 50 tons/year

Hydrometallurgical Plant & Hydrometallurgical Residue Facility

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Sodium Hydrosulfide, 30% Solution (Primary)	Cementation of copper from solution as copper sulfide	Hydromet, specifically copper cementation	Continuous	3.17 tons/day 1,160 tons/year	4.10 tons/day 1,750 tons/year
Caustic Soda (Sodium Hydroxide, 50% Solution)	Increase pH of off-gases by removing traces of H2S and S02 in vent scrubbers	Hydromet, specifically the plant scrubber	Continuous	57.53 gallons/day 21,000 gallons/yr	82.19 gallons/day 30,000 gallons/yr
Sulfuric Acid, 93% Solution	Used as wash water for leach residue filter	Hydromet, specifically the residue filter wash water	Continuous	0.47 tons/day 170 tons/yr	0.68 tons/day 250 tons/yr
Hydrochloric Acid, 32% Solution	Addition of chloride used to promote mineral leaching	Hydromet, specifically the autoclave	Continuous	13.70 tons/day 5,000 tons/yr	20.55 tons/day 7,500 tons/yr
MagnaFloc 342	Flocculation: Promote flocculation of suspended particles in liquors	Hydromet, specifically mixed hydroxide precipitation	Continuous	0.06 tons/day 21 tons/yr	0.11 tons/day 40 tons/yr

Hydrometallurgical Plant & Hydrometallurgical Residue Facility

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
MagnaFloc 351	Flocculation: Promotes flocculation of suspended particles in liquors	Hydromet, specifically in the leach residue thickener, PGM thickener, and copper sulfide cementation thickener	Continuous	0.27 tons/day 100 tons/yr	0.41 tons/day 150 tons/yr
Sulfur Dioxide (Liquid)	Reduce ferric ions to ferrous ions	Hydromet, specifically iron reduction and PGM precipitation	Continuous	4.14 tons/day 1,510 tons/yr	6.16 tons/day 2,250 tons/yr
Limestone (Lump)	Promote precipitation of Fe and Al	Hydromet, specifically in iron removal	Continuous	276.71 tons/day 101,000 tons/yr	410.96 tons/day 150,000 tons/yr
Limestone (Ground) (Potential substitute)	Promote precipitation of Fe and Al	Hydromet, specifically in iron removal	Continuous	276.71 tons/day 101,000 tons/yr	410.96 tons/day 150,000 tons/yr
Magnesium Hydroxide, 60% Slurry	Promote precipitation of Ni and Co sulfates as Ni and Co hydroxides (mixed hydroxide precipitate)	Hydromet, specifically mixed hydroxide precipitation	Continuous	16.44 tons/day 6,000 tons/yr	24.66 tons/day 9,000 tons/yr
Magnafloc 155	Flocculant: Promote flocculation of suspended particles in liquors	Hydromet, specifically mixed hydroxide precipitation	Continuous	0.11 tons/day 40 tons/year	0.21 tons/day 75 tons/year

Transportation and Utility Corridor

Chemical	Purpose	Location of Chemical in Process	Amount, Duration, Frequency of Addition	Average Rate of Use	Maximum Rate of Use
Magnesium Chloride Aqueous Solution (Dustguard)	Dust Suppressant	Haul roads and stockpiles, if needed	2 -3 times/year	49,339 gallons/day 98,678 gallons/yr	49,339 gallons/day 148,017 gallons/yr
Calcium Chloride	De-icer	Walkways, haul roads	1 time/year as needed	N/A	TBD