

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2014-XXXX
FOR

LAMPLIGHT, INC.
MAYBELLE TIMM ELEY
TIMM M TESTAMENTARY TRUST
UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
UNITED STATES DEPARTMENT OF INTERIOR, BUREAU OF LAND MANAGEMENT

TIMM MINE

EL DORADO COUNTY

This monitoring and reporting program (MRP) is issued pursuant to Water Code section 13267. This MRP contains requirements for surface water monitoring, facility monitoring, maintenance, and reporting; requires the submittal of periodic updates regarding the financial assurance mechanisms required by Waste Discharge Requirements (WDRs) Order R5 2014-XXXX; and includes requirements related to the implementation of the Standard Provisions and Reporting Requirements (SPRRs) dated February 2009. The Discharger shall not implement any changes to this MRP unless a revised MRP is issued by the Central Valley Water Board or the Executive Officer.

A. MONITORING

Based on Finding 50 of the WDRs, groundwater monitoring is not required by this MRP. Should the Discharger propose to contain Group B mining waste in WMUs that pose a threat to groundwater or propose to discharge Group B mining waste to land without appropriate treatment and/or controls, the need for groundwater monitoring will be reassessed.

The Discharger shall comply with provisions for monitoring in accordance with Standard Monitoring Specifications in Section IX of the SPRRs and the Monitoring Specifications in Section C of the WDRs. Surface water quality monitoring shall be conducted in accordance with the Discharger's approved *Sample Collection and Analysis Plan*.

Traverse Creek upstream (R-1) shall constitute the monitoring point for the Water Quality Protection Standard (WQPS) for surface water monitoring in Traverse Creek. All surface water monitoring points shall be sampled and analyzed for monitoring parameters and constituents of concern (COCs) as listed in Tables II and III of this MRP.

The Discharger may use alternative analytical test methods, including new USEPA approved methods, provided the methods have method detection limits and reporting limits equal to or lower than the analytical methods specified in this Monitoring and Reporting Program, and are identified in an approved *Sample Collection and Analysis Plan*.

The monitoring program of this MRP includes:

<u>Section</u>	<u>Monitoring Program</u>
A.1	Surface Water Monitoring
A.2	Facility Monitoring

1. **Surface Water Monitoring**

The Discharger shall operate a surface water quality monitoring and response program for any mining unit where runoff from the mining unit flows or could flow either directly or indirectly to waters of the United States.

At the Timm Mine, storm water runoff from Group C mining waste piles flow to detention basin(s) that periodically discharge to Traverse Creek as allowed under State Water Resources Control Board Order 97-03-DWQ, *General Permit for Discharges of Storm Water Associated with Industrial Activities* (General Order). Title 27 section 22480(b)(3) defines Group C mining waste as “wastes from which any discharge would be in compliance with the applicable water quality control plan, including water quality objectives other than turbidity.” Therefore, monitoring and reporting of discharges from Group C mining waste shall be conducted under a separate WDRs accordance with the General Order.

The surface water quality monitoring points for the Timm Mine are:

<u>Mon Pt.</u>	<u>Status</u>
R-1	Traverse Creek upstream (Background)
R-2	Traverse Creek downstream (Point of Compliance)
PD-1	Portal Discharge after treatment, prior to land discharge (Point of Compliance)
EF-1	Group B mine waste (WDRs Section B.5) discharge after treatment, prior to land discharge (Point of Compliance)

For surface water quality monitoring, a sample shall be collected at each monitoring point location and analyzed for the monitoring parameters and constituents in accordance with the frequency specified in Table II and the methods and reporting limits specified in Table III. All surface water monitoring samples shall be collected and analyzed for the 5-year COCs specified in Table III every five years, beginning in 2014.

2. **Facility Monitoring**

a. **Annual Facility Inspection**

Annually, prior to the anticipated rainy season, but no later than **30 September**, the Discharger shall conduct an inspection of the facility. The inspection shall assess repair and maintenance needed for drainage control systems, cover systems, and waste containment systems; and shall assess preparedness for winter conditions (including but not limited to erosion and sedimentation control). The Discharger shall take photos of any problems areas before and after repairs. Any necessary construction, maintenance, or

repairs shall be completed by **31 October**. Annual facility inspection reporting shall be submitted as required in Section B.3 of this MRP.

b. **Major Storm Events**

The Discharger shall inspect all precipitation, diversion, and drainage facilities and all mining unit side slopes for damage **within 7 days** following major storm events capable of causing damage or significant erosion. The Discharger shall take photos of any problem areas before and after repairs. Necessary repairs shall be completed **within 30 days** of the inspection. Notification and reporting requirements for major storm events shall be conducted as required in Section B.5 of this MRP.

c. **Standard Observations**

The Discharger shall conduct Standard Observations at the facility in accordance with this section of the MRP. Standard observations shall be conducted in accordance with the following schedule:

<u>Mining Unit Type</u>	<u>Frequency</u>	<u>Season</u>
Active	Weekly	Wet: 1 October to 30 April
Active	Monthly	Dry: 1 May to 30 September
Inactive/Closed	Monthly	Wet: 1 October to 30 April
Inactive/Closed	Quarterly	Dry: 1 May to 30 September

The Standard Observations for the mining units shall include:

- 1) Signs of erosion along the slopes or perimeter (show affected area on map):
- 2) Any moisture discharged from the base of any WMUs containing Group B solid mining waste per Finding 64 of the WDRs. Moisture discharged from the base of any WMUs containing Group B solid mining wastes shall indicate measurably significant evidence of a release and shall be treated accordingly per the SPRRs and B.4 of this MRP.
- 3) For receiving waters:
 - a) Floating and suspended materials of waste origin - presence or absence, source, and size of affected area; and
 - b) Discoloration and turbidity - description of color, source, and size of affected area.

Results of Standard Observations shall be submitted in the quarterly monitoring report required in Section B.1 of this MRP.

3. Waste Discharge Monitoring

The Discharger shall monitor the types and quantity of waste discharged in accordance with the frequencies specified in Table I and report the results as required in Section B.1 of this MRP.

B. REPORTING

The Discharger shall submit the following reports in accordance with the required schedule:

Reporting Schedule

<u>Section</u>	<u>Report</u>	<u>End of Reporting Period</u>	<u>Due Date</u>
B.1	Quarterly Monitoring Report	31 March 30 June 30 September 31 December	30 April 31 July 31 October 31 January
B.2	Annual Monitoring Report	31 December	31 January
B.3	Annual Facility Inspection Report	31 October	15 November
B.4	Seep Reporting	Continuous	Immediately and 7 Days
B.5	Major Storm Event Reporting	Continuous	7 days from damage discovery
B.6	Financial Assurances Report	31 December	31 July
B.7	Waste Characterization Report	As Required	31 January

Reporting Requirements

The Discharger shall submit monitoring reports **quarterly** with the data and information as required in this Monitoring and Reporting Program and as required in WDRs Order R5 2014-XXXX and the Standard Provisions and Reporting Requirements (particularly Section IX: "Provisions for Monitoring" and Section X: "Response to a Release"). In reporting the monitoring data required by this program, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. The data shall be summarized in such a manner so as to illustrate clearly the compliance with waste discharge requirements or the lack thereof. Data shall also be submitted in a digital format, such as a computer disk.

Field and laboratory tests shall be reported in each monitoring report. Quarterly monitoring reports shall be submitted to the Central Valley Water Board in accordance with the above schedule for the calendar period in which samples were taken or observations made.

The results of **all monitoring** conducted at the site shall be reported to the Central Valley Water Board in accordance with the reporting schedule above for the calendar period in which samples were taken or observations made.

The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, all original strip chart recordings of continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained throughout the life of the facility including the post-closure period. Such records shall be legible and shall show the following for each sample:

- a) Sample identification and the monitoring point or background monitoring point from which it was taken, along with the identity of the individual who obtained the sample;
- b) Date, time, and manner of sampling;
- c) Date and time that analyses were started and completed, and the name of the personnel and laboratory performing each analysis;
- d) Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used;
- e) Calculation of results; and
- f) Results of analyses, and the MDL and PQL for each analysis. All peaks shall be reported.

Required Reports

1. **Quarterly Monitoring Report:** Monitoring reports shall be submitted quarterly and are due on **31 January, 30 April, 31 July, and 31 October**. Each annual monitoring report shall contain at least the following:
 - a) A statement that the sampling procedure was conducted in accordance with the approved Sample Collection and Analysis Plan.
 - b) A map or aerial photograph showing the locations of observation stations, monitoring points, and background monitoring points.
 - c) Cumulative tabulated monitoring data for all monitoring points and constituents for surface water. Concentrations below the reporting limit shall not be reported as "ND" unless the concentration is below the method detection limit and the method detection limit is also given in the table. Otherwise they shall be reported "<" the reporting limit (e.g., <0.10) or as estimated values and flagged using the USEPA data qualifier (e.g. typically a flagged with "J"). Units shall be as required in Table I and Table II unless specific justification is given to report in other units. Refer to the SPRRs Section IX "Provisions for Monitoring" for requirements regarding MDLs and PQLs.
 - d) Laboratory statements of results of all analyses evaluating compliance with requirements.
 - e) An evaluation of the concentration of each monitoring parameter (or 5-year COC when five year COC sampling is conducted) as compared to the current concentration limits,

and the results of any required verification testing for constituents exceeding a concentration limit. Report any actions taken under SPRRs Section X: Response to a Release for verified exceedances of a concentration limit.

- f) An evaluation of the effectiveness of monitoring and control facilities, and of the run-off/run-on control facilities.
 - g) A summary of all Standard Observations for the reporting period required in Section A.2.c of this MRP.
 - h) A summary of inspection and re-vegetation activities of any closed mining units in accordance with the approved final Closure and Post-Closure Maintenance Plan as required by SPRRs Section XI.D. "Closure" and XI.E. "Post-Closure."
2. **Annual Monitoring Report:** The Discharger shall submit an Annual Monitoring Report to the Central Valley Water Board by **31 January** covering the reporting period of the previous monitoring year. If desired, the Annual Monitoring Report may be combined with the quarterly report where the reporting period ends 31 December, but if so, the Annual Monitoring Report shall clearly state that it is both a 4th quarter and Annual Monitoring Report in its title. Each Annual Monitoring Report shall contain the following information:
- a) All monitoring parameters shall be graphed to show historical trends at each monitoring point and background monitoring point, for all samples taken within at least the previous five calendar years. If a 5-year COC event was performed, than these parameters shall also be graphically presented. Each such graph shall plot the concentration of one or more constituents for the period of record for a given monitoring point or background monitoring point, at a scale appropriate to show trends or variations in water quality. The graphs shall plot each datum, rather than plotting mean values. Graphical analysis of monitoring data may be used to provide significant evidence of a release.
 - b) All historical monitoring data for which there are detectable results, including data for the previous year, shall be submitted in tabular form in a digital file format such as a computer disk. The Central Valley Water Board regards the submittal of data in hard copy and in digital format as necessary for conducting the periodic review and analysis required by Title 27. (Cal. Code Regs., tit. 27, § 20420(h).)
 - c) A comprehensive discussion of the compliance record, and the result of any corrective actions taken or planned which may be needed to bring the Discharger into full compliance with the waste discharge requirements.
 - d) A map showing the area and elevations in which filling has been completed during the previous calendar year and a comparison to final closure design contours, and include a projection of the year in which each discrete mining unit will be filled.
 - e) A written summary of the monitoring results, indicating any changes made or observed since the previous Annual Monitoring Report.
 - f) Updated concentration limits as necessary for each monitoring parameter at each compliance monitoring point based on the new data set.
3. **Annual Facility Inspection Reporting:** By **15 November** of each year, the Discharger shall submit a report describing the results of the inspection and the repair measures

implemented, preparations for winter, and include photographs of any problem areas and the repairs. Refer to Section A.2.a of this MRP, above.

4. **Seep Reporting:** The Discharger shall report by telephone any seepage from a Group B WMU immediately after it is discovered (See Section A.2.c(2) of this MRP). A written report shall be filed with the Central Valley Water Board within seven days, containing at least the following information:
 - a) A map showing the location(s) of seepage;
 - b) An estimate of the flow rate;
 - c) A description of the nature of the discharge (e.g., all pertinent observations and analyses);
 - d) Verification that samples have been submitted for analyses of the Field Parameters and Monitoring Parameters listed in Table II using the methods and reporting limits specified in Table III of this MRP, and an estimated date that the results will be submitted to the Central Valley Water Board; and
 - e) Corrective measures underway or proposed, and corresponding time schedule.
5. **Major Storm Event Reporting:** Following major storm events capable of causing damage or significant erosion, the Discharger **immediately** shall notify Central Valley Water Board staff of any damage or significant erosion upon discovery and report subsequent repairs within **14 days** of completion of the repairs, including photographs of the problem and the repairs. Refer to Section A.2.b of this MRP, above.
6. **Financial Assurances Report:** By **31 July** of each year, the Discharger shall submit updated cost estimates and a copy of the financial assurances for closure and post-closure maintenance. Refer to Financial Assurances Specifications D.1 through D.2 of the WDRs.
7. **Waste Characterization Report:** To ensure that Group C Classification for developmental rock remains appropriate, ongoing sampling and characterization of the mining waste in accordance with Water Code section 13260(k) is required. Ongoing characterization of the mining waste shall be at the frequency of one sample for every 750 cubic yards of mining waste discharged or at least one sample every second year (see Findings 38-40 and Section B.2 of the WDRs). Waste characterization reports shall be submitted annually and are due on **31 January**.

C. WATER QUALITY PROTECTION STANDARD AND COMPLIANCE PERIOD

1. Water Quality Protection Standard Report

The Discharger shall submit a Water Quality Protection Standard Report **by 1 July 2015**. The Water Quality Protection Standard Report shall include the information described in Sections 1.a through 1.e below.

For each waste management unit or water quality compliance point, the Water Quality Protection Standard (WQPS) shall consist of all COCs, the concentration limit for each

constituent of concern, the verification retesting procedure to confirm measurably significant evidence of a release, the point of compliance, and all water quality monitoring points for each monitored medium.

The Water Quality Protection Standard for naturally occurring waste constituents consists of the COCs, the concentration limits, and the point of compliance and all monitoring points. Any proposed changes to the Water Quality Protection Standard shall be submitted in a separate report for review and approval.

The report shall:

- a. Identify **all distinct bodies of surface water** that could be affected in the event of a release from a waste management unit or portion of a unit.
- b. Include a map showing the monitoring points and background monitoring points for the surface water monitoring program. The map shall include the point of compliance in accordance with Title 27, section 20405.
- c. Include a proposed statistical method for calculating concentration limits for monitoring parameters and constituents of concern that are detected in 10% or greater of the background data (naturally-occurring constituents) using a statistical procedure from Title 27, section 20415(e)(8)(A-D) or section 20415(e)(8)(E).
- d. Include a retesting procedure to confirm or deny measurably significant evidence of a release pursuant to Title 27, section 20415(e)(8)(E) and section 20420(j)(1-3).

The Water Quality Protection Standard shall be certified by a California-registered civil engineer or geologist as meeting the requirements of Title 27. If subsequent sampling of the background monitoring point(s) indicates significant water quality changes due to either seasonal fluctuations or other reasons unrelated to waste management activities at the site, the Discharger may request modification of the Water Quality Protection Standard.

The Water Quality Protection Standard shall be evaluated annually and reported for each monitoring point using new and historical monitoring data.

2. Monitoring Parameters

Monitoring parameters are a select group of constituents that are monitored during each monitoring event that are the waste constituents, reaction products, hazardous constituents, and physical parameters that provide a reliable indication of a release from a waste management unit. The monitoring parameters for all waste management units are those listed in Table II for the specified monitored medium.

3. Constituents of Concern (COCs)

The COCs include a larger group of waste constituents, their reaction products, and hazardous constituents that are reasonably expected to be in or derived from waste contained in the waste management unit, and are required to be monitored every five years (Cal. Code Regs, tit. 27, § 20395 and 20420(g)).

The COCs for all mining units at the facility are those listed in Tables II and III for the specified monitored medium. The Discharger shall monitor all COCs every five years, or more frequently as required in accordance with a Corrective Action Program.

4. Concentration Limits

For a naturally occurring constituent of concern, the concentration limit for each constituent of concern shall be determined as follows:

- a. By calculation in accordance with a statistical method pursuant to Title 27, section 20415(e)(8); or
- b. By an alternate statistical method meeting the requirements of Title 27, section 20415(e)(8)(E).

The methods for calculating concentration limits shall be included in the *Water Quality Protection Standard Report* discussed in Section C.1 above.

The Water Quality Protection Standards concentration limits shall not be calculated using data identified as outliers using the EPA 1989 Outlier Test or calculated using data that indicates an upward trend due to a release of COCs to receiving water. Until the Discharger submits an approved Water Quality Protection Standard Report per Section C.1 above the following interim concentration limits shall be used:

Analyte	Compliance Monitoring Point			WQC/WQC ⁵
	R-2	PD-1	EF-1	
pH (Std. Units)	See Note 1	6.5-8.5	6.5-8.5	Basin Plan
EC ³ (umhos/cm) at 25° C	See Note 1	900	900	CDHS 2 nd MCL
Turbidity (NTU)	See Note 2	5	5	Basin Plan & CDHS 1 st MCL
TSS ⁴ (mg/L)	See Note 1	100	100	NPDES Industrial Storm Water Benchmark
Oil and Grease(mg/L)	See Note 1	15	15	NPDES Industrial Storm Water Benchmark
Aluminum (µg/L)	See Note 1	87	87	CTR- Freshwater Aquatic Life
Arsenic, Total (µg/L)	See Note 1	10	10	CDHS 1 st MCL
Copper, Total (µg/L)	See Note 1	4.3 ^b	4.3 ^b	CTR- Freshwater Aquatic Life
Lead, Total (µg/L)	See Note 1	1 ^b	1 ^b	CTR- Freshwater Aquatic Life
Nickel, Total (µg/L)	See Note 1	24 ^b	24 ^b	CTR- Freshwater Aquatic Life
Zinc, Total (µg/L)	See Note 1	55 ^b	55 ^b	CTR- Freshwater Aquatic Life
Ammonium (NH ₄ ⁺), total	See Note 1	See Note 7	See Note 7	CA Department of Fish and Game
Nitrate (NO ₃ ⁻), total (mg/L)	See Note 1	45	45	CDHS 1 st MCL

Notes:

Outliers shall not be used to calculate concentration limits when concentration limits are used for detection monitoring.

¹Interim Monitoring result shall not exceed more than 10% of the monitoring result for the same constituent at background monitoring point R-1 for the same sampling event.

²Where background turbidity at R-1 is less than 1 Nephelometric Turbidity Unit (NTU), controllable factors shall not cause downstream turbidity at R-2 to exceed 2 NTU. Where background turbidity at R-1 is between 1 and 5 NTUs, increases at R-2 shall not exceed 1 NTU. Where background turbidity at R-1 is between 5 and 50 NTUs, increases shall not exceed 20

percent. Where background turbidity at R-1 is between 50 and 100 NTUs, increases at R-2 shall not exceed 10 NTUs. Where background turbidity at R-1 is greater than 100 NTUs, increases at R-2 shall not exceed 10 percent.

³Electrical Conductivity

⁴Total Suspended Solids

⁵Water Quality Criteria (WQC) or Water Quality Objective (WQO). "*Basin Plan*" means Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, "*NPDES Industrial Storm Water Benchmark*" means benchmarks established through State Water Resources Control Board Water Quality Order 97-03-DWQ, "*CTR-Freshwater Aquatic Life*" means California Toxics Rule criteria for the protection of freshwater aquatic life in the receiving water, "*CDHS 1st MCL*" means California Department of Health Services primary Maximum Contaminant Level for drinking water standards.

⁶CTR Freshwater-Aquatic Life beneficial use criteria based on estimated receiving water hardness of 40 mg/L as CaCO₃ downstream at Placerville

⁷The continuous (30-day average) water quality criterion for total ammonia nitrogen is dependent on pH and ambient temperature in Traverse Creek at R-1 when early life stages of fish are present. The Discharger shall calculate the effluent limitations based on pH and temperature in Traverse Creek.

5. Retesting Procedures for Confirming Evidence of a Release

If monitoring results indicate measurably significant evidence of a release, as described in Section IX "Provisions for Monitoring, B.12.b" of the SPRRs, then:

- a. **Immediately** notify the Central Valley Water Board about any constituent or constituents verified to be present at the monitoring point, and follow up with written notification submitted by certified mail **within seven days** of validation; and.
- b. Comply with section **X.A.b** of this document, **Response to a Release**, if any constituent or constituents were verified to be present.
- c. Any analyte that triggers a discrete retest per this method shall be added to the monitoring parameter list such that it is monitored during each regular monitoring event.

6. Point of Compliance

The point of compliance for the WQPS for water quality monitoring in Traverse Creek is monitoring point R-2 (Traverse Creek downstream).

The point of compliance for the WQPS for water quality monitoring for discharges to land from the portal is PD-1 (discharge after treatment, prior to land discharge).

The point of compliance for the WQPS for water quality monitoring for discharges to land from Group B mine waste is EF-1 (discharge after treatment, prior to land discharge).

7. Compliance Period

The compliance period for each waste management unit or water quality compliance point shall be the number of years equal to the active life of the unit plus the closure period. The compliance period is the minimum period during which the Discharger shall conduct a water quality monitoring program subsequent to a release from the waste management unit. The compliance period shall begin anew each time the Discharger initiates an evaluation monitoring program. (Cal. Code Regs., tit. 27, § 20410.)

8. Monitoring Points

A monitoring point is a well, device, or location specified in the waste discharge requirements, which monitoring is conducted and at which the water quality protection standard applies. The monitoring points for each monitored medium are listed in Section A of this MRP.

D. TRANSMITTAL LETTER FOR ALL REPORTS

A transmittal letter explaining the essential points shall accompany each report. At a minimum, the transmittal letter shall identify any violations found since the last report was submitted, and if the violations were corrected. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter. The transmittal letter shall also state that a discussion of any violations found since the last report was submitted, and a description of the actions taken or planned for correcting those violations, including any references to previously submitted time schedules, is contained in the accompanying report. The transmittal letter shall contain a statement by the discharger, or the discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate, and complete.

The Discharger shall implement the above monitoring program on the effective date of this Program.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

WMH/vkj

TABLE I
PRODUCTION MONITORING

<u>Field Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Development Rock Mined (Group C)	Tons	Monthly	Quarterly
Development Rock Reclaimed (Group C)	Tons	Monthly	Quarterly
Mineralized Rock Mined (Group B)	Tons	Monthly	Quarterly
Total Mineralized Rock (Group B) stored in WMUs	Tons	Monthly	Quarterly
Mineralized Rock (Group B) returned to mine for disposal	Tons	Monthly	Quarterly
Mill Tailings (Group B) Produced	Tons	Monthly	Quarterly
Mill Tailings (Group B) returned to mine for disposal	Tons	Monthly	Quarterly

TABLE II
SURFACE WATER MONITORING PROGRAM

<u>Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u> ¹	<u>Reporting Frequency</u>
Field Parameters			
pH	Standard Units	Quarterly	Quarterly
Temperature	°C	Quarterly	Quarterly
Electrical Conductivity (EC)	1 µmhos/cm	Quarterly	Quarterly
Turbidity	NTU	Quarterly	Quarterly
Monitoring Parameters			
General Minerals			
Total Suspended Solids (TSS)	mg/L	Quarterly	Quarterly
Metals			
Aluminum, total	µg/L	Quarterly	Quarterly
Arsenic, total	µg/L	Quarterly	Quarterly
Copper, total	µg/L	Quarterly	Quarterly
Lead, total	µg/L	Quarterly	Quarterly
Nickel, total	µg/L	Quarterly	Quarterly
Zinc, total	µg/L	Quarterly	Quarterly
Oil and Grease	mg/L	Quarterly	Quarterly
Blasting Agents			
Ammonium (NH ₄ ⁺), total	µg/L	twice per year	Annual
Nitrate (NO ₃ ⁻), total	µg/L	twice per year	Annual

5-Year Constituents of Concern (see Table III)

¹ Surface water monitoring is required quarterly when there is water present at the designated surface water monitoring points. Reporting shall include whether there was storm water flow from the facility to waters of the U.S. when the samples were collected.

TABLE III
5-YEAR COCs & APPROVED USEPA ANALYTICAL METHODS

<u>Surface Water (total recoverable):</u>	<u>USEPA Method</u>	Reporting Limit (µg/L)
Aluminum	6020	<=50
Antimony	6020	<=1
Arsenic	6020	<=1
Barium	6020	<=1
Cadmium	6020	<=1
Chromium	6020	<=1
Cobalt	6020	<=1
Copper	6020	<=1
Iron	6020	<=50
Lead	6020	<=1
Manganese	6020	<=1
Mercury	245.7	<=0.05
Nickel	6020	<=1
Selenium	7742	<=3
Silver	6020	<=1
Thallium	6020	<=1
Vanadium	6020	<=1
Zinc	6020	<=5
Oil and Grease	8015	<=50
Ammonium (NH ₄ ⁺)	350.2	<=200
Nitrate (NO ₃ ⁻)	300.0/353.3	<=50