

ATTACHMENT "C"

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

MONITORING AND REPORTING PROGRAM NO. R6T-2003-0034

**NPDES NO. CAG996001**

**FOR**

**REVISED WASTE DISCHARGE REQUIREMENTS AND NATIONAL POLLUTANT  
DISCHARGE ELIMINATION SYSTEM  
GENERAL PERMIT FOR  
LIMITED THREAT DISCHARGES TO SURFACE WATERS**

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A. MONITORING

This monitoring program includes both discharge and receiving water sampling. Discharge samples shall be collected from the waste stream or effluent outfall. Discharge samples shall be representative of the discharge. Representative sampling of multiple discharges is acceptable when multiple discharges are authorized in the NOA.

The frequency of sampling and analyses are specified below. The Regional Board Executive Officer may require more frequent sampling and analyses for some discharges. Sample collection time(s) shall be recorded whenever samples are collected.

1. Flow Monitoring

The Discharger shall monitor the flow rate and calculate the average daily flow rate of the discharge during the entire period of the discharge. A log of all startup and shutdown times shall also be maintained. The flow rate, duration, and total volume shall be monitored and reported. Flow estimates are acceptable provided that the basis for the estimate is clearly indicated with the monitoring reports.

2. Discharge Monitoring

- a. Discharge monitoring shall be conducted based on the category of the discharge, as described in Finding No. 10 of this General Permit. Beginning within first hour of any discharge and continuing throughout the period of discharge, grab samples of the discharge shall be collected at, or as near as possible to, the discharge point(s) and analyzed as follows (in Table 1):

**TABLE 1 – DISCHARGE SAMPLING AND ANALYSIS REQUIREMENTS**

<u>Constituent</u>	Finding No.		<u>Reporting Limit</u>	<u>Frequency</u>	<u>Lab/ Field</u>
	10 Discharge <u>Category</u>	<u>Units</u>			
Turbidity	a-j	NTU	0.2 NTU	Daily <sup>1</sup>	Field
Specific Conductance	b-j	µmho/cm	10 µmho/cm	Daily	Field
pH	b-j	pH	0.1 pH unit	Daily	Field
Temperature	b-j	°C	1 °C	Monthly	Field
Total Dissolved Solids	b-j	mg/l	10 mg/l	Monthly	Lab
Total Suspended Solids	b-j	mg/l	1 mg/l	Monthly	Lab
Total Nitrogen	b-j	mg/l	0.1 mg/l	Monthly <sup>2</sup>	Lab
Total Phosphorus	b-j	mg/l	0.01 mg/l <sup>3</sup>	Monthly <sup>2</sup>	Lab
Total Iron	b-j	mg/l	0.1 mg/l	Monthly	Lab
Total Residual Chlorine	g-j	mg/l	0.1 mg/l	Monthly	Field
TPH – Gasoline Range <sup>4,5</sup>	b,c,d,e, j	µg/l	50 µg/l	Once	Lab
TPH – Diesel Range <sup>4,5</sup>	b,c,d,e, j	µg/l	50 µg/l	Once	Lab
BTEX + Oxygenates <sup>4,5</sup>	b,c,d,e, j	µg/l	0.5 µg/l	Once	Lab

<sup>1</sup> For discharges in the Lake Tahoe or Truckee River Hydrologic Units, the frequency for Turbidity may be required more frequently than daily.

<sup>2</sup> For discharges in the Lake Tahoe Hydrologic Unit, the frequency for Total Nitrogen and Total Phosphorus is daily.

<sup>3</sup> For discharges in the Lake Tahoe Hydrologic Unit, the reporting limit for Total Phosphorus is 0.008 mg/l.

<sup>4</sup> Sampling and analysis for organic constituents in discharges from wells (Category e) is only required if the well is within 1000' of an underground or above-ground petroleum storage tank. Sampling and analysis for organic constituents in discharges from dewatering activities and hydrostatic testing of non-potable conveyances (Categories b, c, d, and j) is always required a minimum of one time. Test method for TPH gasoline range shall be EPA Method 8015/8021. Test method for TPH diesel range shall be EPA Method 8015 modified. Test method for BTEX and oxygenates shall be EPA Method 8260 or equivalent.

<sup>5</sup> TPH means Total Petroleum Hydrocarbons; BTEX means Benzene, Toluene, Ethylbenzene and Xylene. Oxygenates include Tertiary Butyl Alcohol (TBA), Methyl Tertiary Butyl Ether (MTBE), Diisopropyl Ether (DIPE), Ethyl Tertiary Butyl Ether (ETBE), and Tertiary Amyl Methyl Ether (TAME).

- b. For Discharge Categories d, e, f in Finding No. 10, samples will be obtained and analyzed for the constituents listed in Table 2 if either of two conditions are met: 1) laboratory determines that the total dissolved solids (TDS) is greater than 500 mg/l or 2) the field measurement of temperature is greater than 25°C.

**TABLE 2 – DISCHARGE SAMPLING AND ANALYSIS REQUIREMENTS  
FOR GROUND WATER SOURCES WITH  
HIGH TOTAL DISSOLVED SOLIDS  
OR HIGH TEMPERATURES**

<u>Constituent</u>	Finding No.		<u>Reporting Limit</u>	<u>Frequency</u>	<u>Lab/ Field</u>
	<u>10 Discharge Category</u>	<u>Units</u>			
Aluminum	d, e, f	µg/l	50 µg/l	Once	Lab
Antimony	d, e, f	µg/l	6 µg/l	Once	Lab
Arsenic	d, e, f	µg/l	2 µg/l	Once	Lab
Barium	d, e, f	µg/l	100 µg/l	Once	Lab
Beryllium	d, e, f	µg/l	1 µg/l	Once	Lab
Cadmium	d, e, f	µg/l	1 µg/l	Once	Lab
Calcium	d, e, f	µg/l	1000 µg/l	Once	Lab
Chromium	d, e, f	µg/l	10 µg/l	Once	Lab
Cobalt	d, e, f	µg/l	20 µg/l	Once	Lab
Copper	d, e, f	µg/l	50 µg/l	Once	Lab
Lead	d, e, f	µg/l	5 µg/l	Once	Lab
Magnesium	d, e, f	µg/l	1000 µg/l	Once	Lab
Manganese	d, e, f	µg/l	20 µg/l	Once	Lab
Molybdenum	d, e, f	µg/l	20 µg/l	Once	Lab
Nickel	d, e, f	µg/l	10 µg/l	Once	Lab
Selenium	d, e, f	µg/l	5 µg/l	Once	Lab
Silver	d, e, f	µg/l	10 µg/l	Once	Lab
Thallium	d, e, f	µg/l	1 µg/l	Once	Lab
Vanadium	d, e, f	µg/l	20 µg/l	Once	Lab
Zinc	d, e, f	µg/l	50 µg/l	Once	Lab
Sulfides	d, e, f	µg/l	100 µg/l	Once	Lab

### 3. Receiving Water Monitoring

- a. Receiving water sampling stations shall be located appropriately to monitor the quality of waters unaffected by the discharge and waters affected by the discharge. In general, locations should be 50 feet upstream of, and 50 feet downstream of, the discharge. The initial sample shall be taken within two hours of the first discharge to the surface water. Samples shall be analyzed for the following:

**TABLE 3 – RECEIVING WATER SAMPLING AND ANALYSIS REQUIREMENTS**

<u>Constituent</u>	Finding No.		Reporting		Lab/ <u>Field</u>
	10 Discharge <u>Category</u>	<u>Units</u>	<u>Limit</u>	<u>Frequency</u>	
Turbidity	a-j	NTU	0.2 NTU	Daily	Field
Specific Conductance	b-j	µmho/cm	10 µmho/cm	Daily	Field
pH	b-j	pH	0.1 pH unit	Daily	Field
Temperature	b-j	°C	1 °C	Monthly	Field
Total Dissolved Solids	b-j	mg/l	10 mg/l	Monthly	Lab
Total Suspended Solids	b-j	mg/l	1 mg/l	Monthly	Lab
Total Nitrogen	b-j	mg/l	0.1 mg/l	Monthly	Lab
Total Phosphorus	b-j	mg/l	0.01 mg/l <sup>1</sup>	Monthly	Lab
Total Iron	b-j	mg/l	0.05 mg/l	Monthly	Lab
Total Residual Chlorine	g-j	mg/l	0.1 mg/l	Monthly	Field

<sup>1</sup> For discharges in the Lake Tahoe Hydrologic Unit, the reporting limit for Total Phosphorus is 0.008 mg/l.

- b. In conducting the receiving water sampling, a log shall be kept of the visual condition of the surface water for every sampling event and shall record the presence or absence of:
- i. Floating or suspended matter
  - ii. Coloration
  - iii. Visible films, sheens, or coatings
  - iv. Odors
  - v. Aquatic life
  - vi. Algae, fungi, slimes or other aquatic vegetation
  - vii. Erosion
  - viii. Sedimentation
  - ix. Other factors affecting water quality not noted above.

#### 4. Analysis of Samples

All analyses shall be performed in accordance with the most recent edition of *Standard Methods for the Examination of Water and Wastewater*, and in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Executive Officer.

5. Interim Monitoring Requirements for CTR Compliance

Discharges and receiving waters shall be sampled and analyzed for priority pollutants within the first two hours of discharge. Representative samples shall be collected to evaluate whether additional water quality-based effluent limitations are required.

Dischargers in discharge categories g, h, and i in Finding No. 10 of the General Permit covered by a categorical exception to the CTR/SIP are not required to meet these interim monitoring requirements.

The discharge and receiving water shall be analyzed for the constituents listed in Table 4. Specific CTR constituents to be monitored and suggested test methods are listed in Attachments 2 – 4 of this Monitoring and Reporting Program, with Minimum Levels (MLs) for reporting and CTR compliance determination.

**TABLE 4 – INTERIM MONITORING REQUIREMENTS FOR CTR COMPLIANCE**

<u>Constituents</u>	<u>Finding No. 10 Discharge Category</u>	<u>Sample Type</u>	<u>Reporting Limit</u>	<u>Frequency</u>	<u>Lab/ Field</u>
Volatile Organics	a-f, j	Grab	Attachment	Once	Lab
Semi-Volatile Organics	a-f, j	Grab or Composite	Attachment	Once	Lab
Inorganics	a-f, j	Grab or Composite	Attachment	Once	Lab
Pesticides & PCBs	a-f, j	Grab or Composite	Attachment	Once	Lab
Dioxin	a-f, j	Grab	Attachment	Once	Lab

## B. REPORTING

1. General Provisions

The Discharger shall comply with the "General Provisions for Monitoring and Reporting", dated September 1, 1994, which is attached to and made a part of this Monitoring and Reporting Program as Attachment 1.

## 2. Report Format

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations and the sampling points are readily discernible. Original lab and field data sheets (or photocopies) shall also be included. The report shall contain contact information for a person who can answer questions regarding the details of the report.

In all monitoring reports provided to the Regional Board the Discharger shall clearly identify any violations or shall certify that no violations occurred. For every item where the requirements are not met, the Discharger shall submit a statement of actions taken or proposed which will bring the discharge into full compliance with the requirements at the earliest time and submit a timetable for completion.

## 3. Submittal Periods

- a. Quarterly reports containing the information specified above shall be received by the appropriate Regional Board office by the due date following each monitoring period:

**TABLE 5 – DUE DATES FOR QUARTERLY REPORTS**

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<u>Monitoring Period</u>	<u>Due Date</u>
January 1 – March 31	April 21
April 1 – June 30	July 21
July 1 – September 30	October 21
October 1 – December 31	January 21

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- b. When pre-project test results for CTR constituents are not available, or the duration of a project is less than 30 days, reporting of laboratory and field data within 48 hours of sampling may be required. Requirements to report data more often than quarterly

will be decided on a case-by-case basis depending on the nature of the discharge and the duration of the project and will be specified in the NOA issued for the project.

Date: \_\_\_\_\_

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HAROLD J. SINGER  
EXECUTIVE OFFICER

- Attachment:
- 1) [General Provisions for Monitoring and Reporting](#)
  - 2) [CTR Constituents To Be Monitored](#)
  - 3) [Dioxin and Furan CTR Sampling](#)
  - 4) [Reporting Requirements for CTR Monitoring](#)

JSS/cgT: Revised LTD MRP  
[Pending]