

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 AEROVISTA PLACE, SUITE 101
SAN LUIS OBISPO, CA 93401-7906**

**MONITORING AND REPORTING PROGRAM NO. R3-2004-0124
NPDES PERMIT NO. CA0049972
Waste Discharger Identification No. 3429811001
Proposed for Consideration at the December 3, 2004 Board Meeting**

For

**CASMALIA RESOURCES
AND
CASMALIA RESOURCES SITE STEERING COMMITTEE

Santa Barbara County**

POND MONITORING

1. The Discharger shall monitor pond water levels according to the table below:

Parameter	Units	Sample Type	Minimum Analysis Frequency
Within Seven to Five Feet of Freeboard	Feet to the nearest 1/10 foot	Visual From Staff Gauge	Weekly
Less Than Five Feet of Freeboard	Feet to the nearest 1/10 foot	Visual From Staff Gauge	Daily

EFFLUENT MONITORING

1. The Discharger shall demonstrate compliance prior to commencing a discharge to Casmalia Creek pursuant to section G.4 of Order No. R3-2004-0124. Once pre-discharge compliance is reported to the Executive Officer, effluent samples shall be collected at the outfall prior to entering Casmalia Creek commencing with a discharge and ceasing at the termination of the discharge and shall be analyzed according to the table below:

TABLE 1

Parameter	Units	Sample Type	Minimum Analysis Frequency
Discharge Pipe	Cubic Feet/Second	Metered Flow	Continuous
Halogenated Volatile Organic Compounds	µg/l	Grab	Weekly
Parameters Listed Under: <u>B. 3 EFFLUENT LIMITATIONS</u> In Order No. R3-2004-0124 ¹	µg/l	Grab	Weekly
Pesticides/Herbicides	µg/l	Grab	Weekly
pH	pH	Grab	Weekly
Semi-Volatile Organic Compounds	µg/l	Grab	Weekly
Title 22, Appendix IX ²	µg/l	Grab	Quarterly
Fecal Coliform Bacteria	MPN	Grab	Based on a minimum of not less than five samples for any 30 day period during a discharge
Total Petroleum Hydrocarbons	µg/l	Grab	Weekly
Volatile Organic Compounds	µg/l	Grab	Weekly
Whole Effluent Toxicity Testing (WET)	“Pass” or “Fail” (Acute) TUc (Chronic)	Grab	Monthly ³

2. All metals shall be expressed in terms of “total recoverable metals” pursuant to 40 Code of Federal Regulations, Section 122.45(c).
3. In the event effluent limits in Order No. R3-2004-0124 are exceeded, sampling for those parameters exceeding effluent limitations shall occur daily until compliance with effluent limits is achieved.
4. In the event acute or chronic toxicity is demonstrated by WET testing, testing shall be conducted according to the schedule specified in Section C. of Order No. R3-2004-0124.

¹ All parameters listed under **B. EFFLUENT LIMITATIONS** in Order No. R3-2004-0124 that are not included in Title 22, Appendix IX sampling, shall be analyzed separately.

² Appendix IX sampling shall commence with the initiation of a discharge and for discharges continuing more than 90 days thereafter until termination of the discharge. Quarterly sampling shall commence on January 15th, April 15th, July 15th, and October 15th.

³ Monthly whole effluent toxicity testing shall commence with the initiation of a discharge and continue monthly thereafter until the discharge is terminated. All provisions under Section C, Whole Effluent Toxicity Requirements, in Order No. R3-2004-0124 apply to the discharge and pre-discharge compliance demonstration.

- All sample analyses shall be conducted at the lowest practical quantitation limits achievable under U.S. EPA specified methodology. Where analytical methods and matrix conditions allow, detection limits for metals shall be 1 part per billion except for mercury and silver at 0.01 parts per billion.

RECEIVING WATER MONITORING

- Receiving water samples and measurements shall be collected fifty feet upstream and downstream of the outfall commencing with a discharge and until termination of the discharge and analyzed according to the table below:

TABLE 2

Parameter	Units	Sample Type	Minimum Analysis Frequency
Biochemical Oxygen Demand	mg/l	Grab	Weekly
Casmalia Creek Flow ⁴	Cubic Feet/Second	In Stream	Continuous
Chemical Oxygen Demand	mg/l	Grab	Weekly
Dissolved Oxygen	mg/l	In Stream	Weekly
Hardness ⁵	mg/l as CaCO ₃	In Stream	Weekly
Rainfall Total	Inches	Rain Gauge On Site	Weekly
pH	pH	In Stream	Weekly
Temperature	Degrees Celsius	In Stream	Weekly
Turbidity	Nephelometric Turbidity Units ⁶	In Stream	Weekly

REPORTING

- The Discharger shall implement this Monitoring and Reporting Program beginning on the effective date of Order No. R3-2004-0124. An annual water quality assessment report shall be submitted when a discharge occurs. The annual report shall include a summary of compliance and a compilation of monitoring data from the preceding year.
- Interim monitoring reports shall include narrative descriptions of compliance status with Order No. R3-2004-0124. Graphs, plots, and trends shall also be used to describe monitoring data related to compliance with Order No. R3-2004-0124. Sampling and data collection efforts shall be discussed and a summary of analytical results shall be provided for all sampling during specified monitoring periods.
- The Discharger shall arrange all data in tabular form so the date, parameters, and concentrations are readily discernible. The data shall be summarized to indicate compliance status with Order No. R3-2004-0124.

⁴ The flow of Casmalia Creek shall be measured fifty feet upstream of the outfall area during discharges.

⁵ Hardness of the receiving water shall be quantified and compared to the hardness of the effluent to determine compliance with calculated CTR hardness derived effluent limits. If the hardness of the receiving water is less than the hardness of the effluent, then the receiving water hardness shall be used for calculating CTR-derived effluent limits to comply with water quality standards.

⁶ Turbidity shall be measured as described in Standard Methods Part 2130 (1992).

4. The Discharger shall include copies of all original laboratory chain-of-custody forms and all laboratory analytical data sheets including internal and external quality assurance/quality control (QA/QC) data. QA/QC requirements shall adhere to United States Environmental Protection Agency (U.S. EPA) guidelines and protocol. Field generated QA/QC data shall be performed on not less than 10 percent for all sampling.
5. Pond monitoring reports shall include:
 - a. Water levels as measured from staff gauge and freeboard.
 - b. Total volumes for individual ponds and the collective total pond volume.
 - c. The level and volumes of the ponds after a discharge.
 - d. Total volume discharged from each pond and collectively from all ponds.
6. Analytical data reported as “less than” shall be reported as less than a numeric value or below the limit of detection for that particular analytical method (limit of detection shall be noted).
7. The Discharger shall provide a discussion of the status of the treatment plant and any proposed changes, enhancements, or problems.
8. Any analyses performed for which no procedure is specified in the U.S. EPA guidelines or methodology, the parameters analyzed and the method or procedure used must be specified in the report.
9. All QA/QC data shall be reported along with the sample results to which it applies. Sample results shall be reported unadjusted for blank results or spike recovery. The QA/QC data submittal shall include:
 - a. The method, equipment, and analytical detection limits.
 - b. The recovery rates and an explanation for any recovery rate that is outside the U.S. EPA specified recovery rate.
 - c. The results of equipment and method blanks.
 - d. The results of spiked and surrogate samples.
 - e. The frequency of QA/QC analyses.
 - f. The name of the person(s) performing the analyses.
10. All monitoring and reporting data are required pursuant to Section 13267 and 13338 of the California Water Code.
11. Monitoring and reporting data shall be submitted in reports according to the schedule in the table below:

TABLE 3

Monitoring Requirement	Submittal Timeframe
Annual Reports	July 31 th each year when a discharge occurs
Monthly Reporting	Within 30 days of the month following the reporting period.
Weekly Reporting	Within 30 days of sample/measurement collection.
Weekly Pond Reporting	Within five days of measurement.
Daily Reporting	Within 24 hours of data collection.
Casmalia Creek and Discharge Flow Rates	Within five days following each month of collected data.
Pre-Discharge Compliance Demonstration Reports	Not less than five days preceding a discharge.

Ordered By _____
Executive Officer

Date

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