

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2011-0028

FOR
TRIANGLE ROCK PRODUCTS, INC.
FLORIN ROAD AGGREGATE PLANT
SACRAMENTO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring of the ponds, wastewater, surface water and water supply. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Field test instruments (such as those used to measure pH, electrical conductivity, turbidity, and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;
3. The instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

POND MONITORING

Each wastewater settling pond and drying bed shall be inspected weekly and monitored as follows:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Influent flow	gallons	Measurement ¹	Weekly	Monthly
Freeboard	0.1 feet	Measurement	Weekly	Monthly
Berm condition	N/A	Observation	Weekly	Monthly

¹ May be based on flow meter totalizer reading or pump run time estimate. The method of measurement must be specified.

WASTEWATER MONITORING

A grab sample of sediment slurry from the clarifier shall be obtained and monitored as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Electrical Conductivity	umhos/cm	Grab	Monthly	Monthly
pH	std.	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Semi-Annually ¹	Semi-Annually ¹
Standard Minerals ²	mg/L	Grab	Annually ³	Annually ³

¹ Semi-Annual samples shall be collected twice per year, January through June and July through December.

² Standard minerals include the following: chloride, sulfate, carbonate, bicarbonate, sodium, potassium, calcium, iron, magnesium, manganese.

³ Annual samples shall be collected once per year, July through September.

SURFACE WATER MONITORING

Grab samples of surface water shall be obtained from Laguna Creek when flowing water is present in the channel at the following locations:

<u>Station</u>	<u>Location</u>
SW-1	Laguna Creek at Sunrise Boulevard
SW-2	Laguna Creek at Florin Road

Surface water samples shall be monitored as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
pH	std.	Grab	Monthly	Monthly
Turbidity	NTU	Grab	Monthly	Monthly
Electrical Conductivity	umhos/cm	Grab	Monthly	Monthly

The following observations shall also be made monthly. If no water is present, the monitoring report shall so state.

1. Apparent seepage through the banks of Laguna Creek;
2. Apparent erosion from discharge of storm water from the Site to Laguna Creek;
3. Apparent clarity of the water in Laguna Creek; and
4. Whether Laguna Creek is flowing along the entire reach, completely dry, or partially dry.

WATER SUPPLY MONITORING

A grab sample of water from supply well, Well 1, shall be obtained and monitored as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Electrical Conductivity	umhos/cm	Grab	Monthly	Monthly
pH	std.	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Semi-Annually ¹	Semi-Annually ¹
Standard Minerals ²	mg/L	Grab	Annually ³	Annually ³

¹ Semi-Annual samples shall be collected twice per year, January through June and July through December.

² Standard minerals include the following: chloride, sulfate, carbonate, bicarbonate, sodium, potassium, calcium, iron, magnesium, manganese.

³ Annual samples shall be collected once per year, July through September.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type, and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

A. Monthly Monitoring Reports

Monthly Monitoring Reports shall be submitted to the Central Valley Water Board on the **1st day of the second month following sampling** (i.e. the January Report is due by 1 March). At a minimum, the Monthly Monitoring Report shall include:

1. Results of pond, wastewater, surface water and water supply monitoring.
2. A map depicting the locations of all active wastewater ponds, drying beds, surface water sampling locations, and the locations where pond freeboard is measured.
3. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format.
4. If requested by staff, copies of laboratory analytical report(s).
5. A discussion of all septage and other off-site industrial waste disposal.
6. A calibration log verifying calibration of all monitoring instruments and devices used to comply with the prescribed monitoring program.

B. Semi-Annual Monitoring Report

In addition to the monthly report described above, the Discharger shall establish a semi-annual (twice per year) sampling schedule for groundwater monitoring such that samples are obtained approximately every six months. The annual sampling schedule for groundwater shall be obtained between the months of July through September. The data shall be included in the semi-annual monitoring reports which shall be submitted to the Central Valley Water Board by the **1st day of the second month after the reporting period** (e.g. the January-June semi-annual report is due by August 1st). As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, groundwater monitoring reports shall be prepared under the supervision of a California licensed engineer or geologist. The Semi-Annual Report shall include the following:

1. Results of the wastewater monitoring.
2. Results of the water supply monitoring.
3. A scaled map showing relevant structures and features of the facility.
4. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities. The narrative shall be sufficiently detailed to verify compliance with the WDR, this MRP, and the Standard Provisions and Reporting Requirements. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged.
5. A narrative discussion of the analytical results including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable).
6. A comparison of the monitoring data to groundwater limitations, and an explanation of any violation of those requirements.
7. Summary data tables of all analytical results.
8. Copies of laboratory analytical report(s). This submittal may be made on electronic media, appropriately labeled to indicate the associated monitoring report. If this option is selected, include a copy of the complete report (in portable document format (pdf) or equivalent) in the submittal.

C. Annual Monitoring Report

In addition to the monthly and semi-annual reports described above, an Annual Monitoring Report shall be submitted to the Central Valley Water Board by **1 February each year**. The Annual Monitoring Report shall include the following:

1. A written summary of all significant actions taken during the year.
2. Tabular summaries of all monitoring data obtained during the year. Data showing trends, such as groundwater elevation or quality, shall be presented in graphs.
3. A map showing the current location of the wastewater settling pond locations.

4. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
6. A summary of information on the management and disposal of sediments.
7. A forecast of wash water and sediment slurry flows for the coming year, as described in Standard Provision No. E.4.

A transmittal letter shall accompany each self-monitoring report. The letter shall discuss any violations during the reporting period and all actions taken or planned for correcting violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. 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 as of the date of this Order.

original signed by

PAMELA C. CREEDON, Executive Officer

8 April 2011

(Date)