

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2003-0176, REVISION NO. 2

FOR
GREEN VISTA HOLDINGS, LLC
GREEN VISTA LAND HOLDINGS, LLC
BEAR RIVER AGGREGATES
MEADOW VISTA QUARRY
PLACER AND NEVADA COUNTIES

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the aggregate wash water settling ponds, dredge settling pond, and the concrete batch plant wash water. This MRP is issued pursuant to Water Code 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 and dissolved oxygen) may be used provided that:

1. The operator is trained in the proper use and maintenance of the instruments;
2. The instruments are field 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 this MRP.

OPERATIONAL STATUS

The Discharger shall maintain records in order to answer the following:

1. Has mining activity occurred during the month? Yes or No
2. Was the concrete batch plant operated during the month? Yes or No
3. Was aggregate wash water generated or discharged into the ponds during the month? Yes or No

POND MONITORING

All ponds shall be inspected weekly and monitored as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Freeboard ¹	0.1 Feet	Measurement	Weekly ³	Monthly
Berm Condition ²	N/A	Observation	Weekly ³	Monthly

¹Freeboard shall be measured from the lowest point of overflow.

²Evidence of leakage or overflow shall be noted.

³May be sampled monthly if no discharge to the ponds occurred during the previous or current calendar month.

EFFLUENT MONITORING

Samples shall be collected from the first (primary) settling pond of each pond system when at least six inches of water is present. At a minimum, the Discharger shall monitor the wastewater as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Inflow to each Primary Pond	gpd	Meter Observation	Daily	Monthly
pH	pH units	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
Dissolved Metals ¹	µg/L	Grab	Semi-Annual ⁴	Annually
Total Mercury ²	ng/L	Grab	Semi-Annual ⁴	Annually
Total Petroleum Hydrocarbons ³	mg/L	Grab	Semi-Annual ⁴	Annually

¹ Samples shall be filtered through a 0.45 micron filter prior to preservation. At a minimum, the following metals shall be included: aluminum, arsenic, iron, manganese, molybdenum, nickel, and selenium. Analytical methods shall be selected to provide detection limits below the limiting Water Quality Goal for each constituent.

² Only required in the primary settling pond of the dredging operation. The total mercury detection limit shall be no more than 10 ng/L.

³ TPH shall be performed by EPA Method 8015M for gasoline range and diesel range hydrocarbons.

⁴ At least two samples shall be taken per year for each primary settling pond in operation. One sample shall be collected between months January through June. A second sample shall be collected between July and December.

CONCRETE BATCH PLANT WASH WATER MONITORING

Samples shall be collected from the discharge of the concrete batch plant. If the batch plant did not operate during the month, then no samples need to be collected, and the monthly monitoring report shall indicate as such. At a minimum, the Discharger shall monitor the wastewater as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd	Meter Observation	Daily	Monthly

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
pH	pH units	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
<u>Dissolved Metals^{1, 2}</u>	μ g/L	Grab	Monthly	Monthly

¹ At a minimum, the following metals shall be included: aluminum, antimony, arsenic, barium, total chromium, hexavalent chromium, copper, iron, lead, mercury, manganese, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Analytical methods shall be selected to provide detection limits below the limiting Water Quality Goal for each constituent.

² Samples shall be filtered through a 0.45 micron filter prior to preservation.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), 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

If aggregate mining, washing of aggregate material, and/or operation of the concrete batch plant did not occur during the month, then the monthly monitoring report shall state so, and give a projected timeline for resuming operations.

Monthly Monitoring Reports shall be submitted to the Regional 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 the operational status, pond monitoring, effluent monitoring, and concrete batch plant wash water effluent monitoring.
2. A map depicting the locations of active all wash water ponds, dredge settling ponds, storm water ponds, slurry deposition areas, and the locations where 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 calibration log verifying calibration of all monitoring instruments and devices used to comply with the prescribed monitoring program.
6. A description of the type and amount of chemical coagulants used in the wastewater to enhance the settling of the fines.
7. The January and July monthly reports shall include the semi-annual monitoring results for the aggregate washwater pond.
8. A description of the approximate volume and location of sediment stockpiled along the dredging pond and whether any sediment has been moved from the dredging pond area during that month.

B. Annual Monitoring Report

An Annual Monitoring Report shall be prepared as the fourth quarter monitoring report. The Annual Monitoring Report shall include all monitoring data required in the monthly schedule and shall be submitted to the Regional Board by **1 February** each year. In addition to the data normally presented in the Monthly Monitoring Reports, the Annual Monitoring Report shall include the following:

1. If requested by staff, tabular and graphical summaries of all monitoring data collected during the year;
2. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
3. A Water Balance and Capacity Calculation Report that presents calculation of the current capacity of the wastewater pond system and evaluation of the wastewater storage system's ability to adequately contain all rainfall and industrial wastewater discharged to the pond. Rainfall amounts shall be based on the total annual precipitation based on a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.

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.

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The Discharger shall implement the above monitoring program as of **1 June 2016**.

Ordered by: *Andrew Allworth*
For PAMELA C. CREEDON, Executive Officer

20 May 2016

Date

rtm: 18-May-2016