

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2002-0072-01
FOR
GEORGE REED, INC. AND 711 MATERIALS, INC.
AGGREGATE MINE AND WASTEWATER SYSTEM
SAN JOAQUIN COUNTY

This Monitoring and Reporting Program (MRP) for the City of Modesto (Discharger) Water Quality Control Facility (WQCF) is issued pursuant to Wat. Code section 13267. This MRP establishes monitoring and reporting requirements related to the waste discharges regulated under Waste Discharge Requirements (WDR) **R5-2002-0072**. Each of the Findings set forth in the WDRs Order, including those pertaining to the need for submission of reports, are hereby incorporated as part of this MRP.

The George Reed, Inc. and 711 Materials, Inc. owns and operates the Aggregate Mine. The wastewater treatment system discharge is subject to WDRs Order **R5-2002-0072**. The Discharger shall not implement any changes to this MRP unless and until the Central Valley Regional Water Quality Control Board (Central Valley Water Board) adopts, or the Executive Officer issues, a revised MRP.

This MRP may be separately revised by the Executive Officer, in accordance with their delegated authority under Wat. Code section 13223.

A glossary of terms used in this MRP is included on the last page.

I. SAMPLING AND ANALYSIS

All samples and measurements shall be representative of the volume and nature of the discharge or matrix of material sampled. Except as specified otherwise in this MRP, grab samples will be considered representative of supply water, wastewater, soil, solids/sludges, and groundwater. The time, date, and location of each sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to measure pH, electrical conductivity, dissolved oxygen, wind speed, and precipitation) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments.
2. The instruments are field calibrated at the frequency recommended by the manufacturer.
3. The instruments are serviced and/or calibrated at the manufacturer's recommended frequency.

All analyses shall be performed in accordance with the Standard Provisions and Reporting Requirements for Waste Discharge Requirements, 1 March 1991 ed. ([1](#))

[March 1991 SPRRs](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/std_provisions/wdr-mar1991.pdf)).

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Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

1. Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (EPA);
2. Test Methods for Evaluating Solid Waste (EPA);
3. Methods for Chemical Analysis of Water and Wastes (EPA);
4. Methods for Determination of Inorganic Substances in Environmental Samples (EPA);
5. Standard Methods for the Examination of Water and Wastewater (APHA/AWWA/WEF); and
6. Soil, Plant, and Water Reference Methods for the Western Region (WREP 125).

Approved editions shall be those that are approved for use by the U.S. Environmental Protection Agency (EPA) or the State Water Resources Control Board's Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than concentrations that implement applicable water quality objectives/limits for the constituents to be analyzed.

II. EFFLUENT MONITORING

A. Aggregate Washing Plant

Wastewater effluent samples shall be collected downstream of any mechanical treatment equipment at the influent to the first settling pond. Grab samples are considered adequately composited to represent the effluent. Sample locations shall be established as necessary to determine effluent quality at all potential sources.

Table 1. Aggregate Washing Plant Monitoring Requirements

Parameters and Constituents	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Flow	gpd	Cumulative	Daily	Annually

Parameters and Constituents	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Total Dissolved Solids (Note 1)	mg/L	Grab	Annually	Annually

Note 1 – Sampling is only required once per calendar year when discharges occur. If no discharges occurred for the year, the annual report so shall state.

B. Asphaltic Concrete Plant

Wastewater effluent samples shall be collected at the influent to the asphaltic concrete wastewater pond. Grab samples are considered adequately composited to represent the effluent. Sample locations shall be established as necessary to determine effluent quality at all potential source areas.

Table 2. Asphaltic Concrete Plant Monitoring Requirements

Parameters and Constituents	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Flow	gpd	Cumulative	Daily	Annually
Total Dissolved Solids (Note 1)	mg/L	Grab	Annually	Annually

Note 1 – Sampling is only required once per calendar year when discharges occur. If no discharges occurred for the year, the annual report so shall state.

III. POND MONITORING

1. All ponds used for treatment, storage, or disposal of wastewater shall be monitored when water is present for the parameters listed in the table below and meet the following conditions below.
 - a. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berms (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet. Samples shall be collected at a depth of one foot, opposite the inlet. If any pond is dry, the monitoring report shall so state.
 - b. Containment levees shall be observed for signs of seepage or surfacing water along the exterior toe of the levees.

2. Sampling and monitoring shall be conducted from permanent locations, when practical, that will provide reasonable samples representative of wastewater quality in the ponds and observations of the ponds.
3. Ponds to be monitored as shown in Table 3 include the three facultative ponds, one of the recirculation channels, and two storage ponds, except as noted.

Table 3. Pond Monitoring Requirements

Parameters	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Freeboard	feet	Measurement	Monthly	Annually
Berm conditions	--	Observation	Monthly	Annually

IV. REPORTING REQUIREMENTS

1. The Discharger shall comply with the 1 March 1991 SPRRs related to monitoring, reporting, and recordkeeping.
2. In addition to the requirements of Section C.3 of the SPRRs, monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.
3. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year(s).
4. Laboratory analysis reports shall be included in the monitoring reports. In addition, all laboratory reports must be retained for a minimum of three years in accordance with Section C.3 of the SPRRs. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.
5. As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all monitoring reports that involve planning, investigation, evaluation or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared under the direct supervision of a Registered Professional Engineer or Professional Geologist and signed by the registered professional.

A. Annual Monitoring Report Due Dates

Annual monitoring reports are due **February 1** for monitoring period October 1 – December 31.

B. Annual Monitoring Reports

Annual monitoring reports shall include, at a minimum:

1. Results for the monitoring for the aggregate washing plant, asphaltic concrete plant, and storm water/wastewater ponds.
2. A comparison of monitoring data to the discharge specifications and an explanation of any violations of those requirements. Include a discussion of corrective actions taken, as well as any proposed or planned actions needed to bring the discharge into compliance with WDRs Order R5-2002-0072.
3. Copies of laboratory reports.
4. A forecast of the flows anticipated in the next year.
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

C. Document Submittals

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleysacramento@waterboards.ca.gov.

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, California 95670

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

Facility: Aggregate Mine and Wastewater System (George Reed, Inc.)
Program: Non-15 Compliance
Order Number: R5-2002-0072-01
CIWQS Place ID: 214820

A transmittal letter shall accompany each monitoring report. The letter shall include a discussion of all violations of the WDRs and this MRP during the reporting period and actions taken or planned for correcting each violation. If the Discharger has previously submitted a report describing corrective actions taken and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the following penalty of perjury and shall be signed by the Discharger or the Discharger's authorized agent.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

ENFORCEMENT

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to \$1,000 per violation, per day, depending on the violation, pursuant to Water Code section 13268. The Central Valley Water Board reserves the right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Central Valley Water Board action may petition the State Water Board for review in accordance with Wat. Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; except that if the 30th day falls on a Saturday, Sunday or State Holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the [Internet on the Water Boards Public Notice webpage](http://www.waterboards.ca.gov/public_notices/petitions/water_quality).
(http://www.waterboards.ca.gov/public_notices/petitions/water_quality).

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This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057 and is effective upon signature.

The Discharger shall begin implementing the above monitoring program as of the date of this Order.

for PATRICK PULUPA, Executive Officer

GLOSSARY

DNQ	Detected, but Not Quantified
EPA	Environmental Protection Agency
ELAP	State Water Resources Control Board's Environmental Laboratory Accreditation Program
MDL	Method Detection Limit
MRP	Monitoring and Reporting Program
PDF	Portable Document Format
PQL	Practical Quantitation Limit
RL	Reporting Limit
SPRRs	Standard Provisions and Reporting Requirements
Title 23	California Code of Regulations, Title 23
TDS	Total Dissolved Solids
Wat. Code	Water Code
Daily	Every day except weekends or holidays
Monthly	Once per calendar month
Annually	Once per year
mg/L	Milligrams per liter