

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

MONITORING AND REPORTING PROGRAM NO. CI 6642

for

VULCAN MATERIALS COMPANY

Sun Valley Landfill

(File No. 82-031)

This Monitoring and Reporting Program (MRP), No. CI-6642, is issued by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) to the CalMat Properties Company, doing business as Vulcan Materials Company (Discharger) for the Sun Valley Landfill (Landfill) pursuant to California Water Code (CWC) section 13267(b). This MRP is incorporated by reference into Regional Board Order No. **R4-2014-0xxx** (Order), adopted on November 6, 2014. The Discharger shall begin implementing this MRP following the adoption of the Order. This MRP is required to assure compliance with the conditions of the Order and is issued to the Discharger, which is the owner of the Landfill. The first monitoring report under this program is due by February 15, 2015.

I. Reporting

A. Monitoring reports shall be submitted by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
1 st Semi-Annual Report (for the period from January 1 to June 30)	August 15
2 nd Semi-Annual Report (for the period from July 1 to December 31)	February 15

The semi-annual reports shall include both groundwater monitoring data as required in Section II and the waste disposal information as required in Section III of this MRP. The 2nd Semi-Annual report shall include an annual summary of the data obtained during the calendar year.

B. A transmittal letter that contains the essential points of the report shall accompany each report. Such a letter shall include a discussion of any violations found since the last such report was submitted, and shall describe actions taken or planned for correcting those violations. If the Discharger has previously submitted a detailed time schedule for correcting said violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or above, or by his/her duly authorized representative, if such a representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.

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- C. The Discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
- D. In the event that hazardous or other unacceptable wastes are detected, the Regional Board shall be notified by telephone or facsimile within 24 hours and by writing within 7 days. The type, source, and final disposition of those wastes shall also be reported.
- E. If the Discharger performs analyses for any parameter more frequently than required by this MRP, using approved analytical methods, the results shall be included in the monitoring report.
- F. The Discharger may submit additional data to the Regional Board that are not required by this MRP in order to simplify reporting to other agencies.
- G. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies, for a period of at least five years. This period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire Landfill.
- J. The reporting period and the compliance file number (CI 6642) must be clearly displayed on the title page to facilitate routing to the appropriate staff and file.
- K. Unless it is otherwise required by the Executive Officer, all reports required under this MRP shall be submitted to the State Water Resources Control Board (State Board) Geotracker database system in the form of searchable Portable Document Format (PDF) files. In addition, any groundwater monitoring data shall also be submitted to Geotracker in Electronic Deliverable Format (EDF). A hard copy of the report, including all original laboratory reports and field records that are used in preparation of the reports, must be kept in the Landfill's Operating Record and be available for review by Regional Board staff.

II. Water Quality Monitoring

- A. The groundwater monitoring network of the Landfill shall include background monitoring well 4915 located just north west of the Landfill, downgradient groundwater monitoring well 4925 located onsite at the southern corner of the Landfill (Figure T-1), and one additional groundwater monitoring point, for the monitoring of groundwater elevation only, as required in Section C.1 of the Order. All groundwater monitoring points must be monitored semi-annually. The Executive Officer may require the Discharger to install additional groundwater monitoring points, including the installation of monitoring wells, with the progress of landfill operations at the Landfill.

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B. All water samples shall be analyzed for the following constituents:

<u>Parameter</u>	<u>Units</u>
pH	pH units
Electrical conductivity	umhos/cm
Alkalinity	mg/l
Chemical oxygen demand	mg/l ¹
Total dissolved solids	mg/l
Hardness	mg/l
Oil and Grease	mg/l
Gasoline and Diesel	mg/l
Nitrate (as NO ₃)	mg/l
Chloride	mg/l
Sulfate	mg/l
Boron	mg/l
Cadmium	µg/l ²
Chromium	µg/l
Iron	µg/l
Nickel	µg/l
Volatile organic compounds (VOCs) (USEPA Method 8260B)	µg/l

C. Semi-annual sampling shall be performed during the months of May and November. In the event sampling is not performed as above because of unforeseen circumstances, substitute sampling shall be performed as soon as possible after these times, and the reason for the delay shall also be given.

D. The groundwater-monitoring program is to be continued even during periods when no wastes are deposited at the Landfill, and throughout the active life of the Landfill.

E. All analyses shall be conducted at a laboratory certified for such analyses by the State Board Division of Drinking Water Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency (EPA), and the laboratory must meet EPA Quality Assurance/Quality Control criteria.

F. For any analyses performed for which no procedure is specified in the EPA guidelines, or in this Order, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.

G. 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.

H. All analytical samples obtained for this MRP shall be grab samples.

¹ ml/l = milligram per liter.

² µg/l = microgram per liter.

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- I. The water quality monitoring report must also include the following:
1. Sampling protocol and analytical methods used;
 2. Chain of custody documentation;
 3. Well purge data;
 4. If any required samples were omitted during the reporting period, a statement to that effect shall be made and reasons given for any omission;
 5. Groundwater elevations measured to the nearest 0.01 foot relative to mean sea level. The velocity and direction of ground water flow under the Landfill shall be determined after each monitoring event and reported;
 6. For any monitored waste parameter which is listed as such by the EPA or by the State of California, the discharger shall compare such data to the most stringent allowable concentrations under all existing Federal and State regulations;
 7. An evaluation of the results of the testing signed by a California professional geologist or professional civil engineer.

III. Waste Disposal Reporting

All semi-annual reports to the Regional Board shall include the following information:

- A. A map showing the areas at the landfill where wastes were deposited during the monitoring period.
- B. A tabular list of the estimated average monthly quantities (in cubic yards or tons) of materials deposited each month and the methods of disposal.
- C. Quantities (in tons or cubic yards) of unacceptable materials (such as household trash, wood, etc.) that were removed and sent out from the Landfill in each month. The places where these unacceptable materials were sent to shall also be reported.
- D. Quantities (in tons or cubic yards) of recycled materials (such as steel, crushed concrete, asphalt, etc.) that were sent out from the Landfill in each month.
- E. An estimate of the remaining life of the Landfill in years and months.
- F. A certification that all wastes disposal operations at the Landfill were in compliance with the Regional Board's requirements.
- G. If purged groundwater from the monitoring wells is used at the Landfill, the total volume, and areas of usage shall also be reported.

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**Sun Valley Landfill
Monitoring and Reporting Program No. CI 6642**

Order No. R4-2014-0xxx

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____
Samuel Unger, P.E.,
Executive Officer

Date: November 6, 2014

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CDM Smith **Legend** **Vulcan Materials Co. Groundwater Monitoring Well Locations Attachment 1A**

□ Active Site Boundary
● Well Location

500 0 500 Feet

Figure T - 1. Groundwater Monitoring Well Locations