

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

MONITORING AND REPORTING PROGRAM NO. R9-2017-0114

**FOR CLOSURE AND POST-CLOSURE MAINTENANCE FOR THE CLASS I WASTE
MANAGEMENT CONTAINMENT CELL, FORMER OMAR RENDERING FACILITY, OTAY
MESA VENTURES II, LLC, SAN DIEGO COUNTY, CALIFORNIA**

This Monitoring and Reporting Program (MRP) supersedes and replaces MRP No. 97- 40, Addendum No. 1, and Technical Change Order No. T-1 thereto. This MRP is issued pursuant to Water Code 13267, which authorizes the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board), to require Otay Mesa Ventures II, LLC (the Discharger), to furnish monitoring program reports. The San Diego Water Board Executive Officer has the authority to modify this MRP as appropriate.

A. Monitoring Provisions

1. All analyses shall be performed in a laboratory certified to perform such analyses by the Environmental Laboratory Accreditation Program of the State Water Resources Control Board or a laboratory approved by the Executive Officer. Specific methods of analysis must be identified. If methods other than U.S. Environmental Protection Agency (USEPA)- approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Executive Officer prior to use. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the San Diego Water Board.
2. If the Discharger monitors any pollutants more frequently than required by this MRP, using the most recent version of USEPA methods, or as specified in this MRP, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharger's monitoring report. The increased frequency of monitoring shall also be reported.
3. The Discharger shall report all instances of noncompliance not reported under Reporting Requirement D.5 of the Order at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Requirement D.5 of the Order.
4. Sample collection, storage, and analysis shall be performed according to the most recent version of USEPA methods, and in accordance with an approved sampling and analysis plan.
5. All monitoring instruments and equipment that are used by the Discharger to fulfill the prescribed monitoring program shall be properly calibrated and maintained as necessary to ensure their continued accuracy.

6. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this MRP. Records shall be maintained for a minimum of 5 years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Executive Officer.
7. Records of monitoring information shall include:
 - a. The date, sample identity, monitoring well from which the sample was collected, and time of sampling or measurement
 - b. The individual(s) who performed the sampling or measurement
 - c. Date and time that analyses were started and completed, and the name of the personnel performing each analysis
 - d. The analytical techniques or methods used, including method of sample preservation and the identify and volumes of reagents used
 - e. Calculation of results
 - f. Results of analyses, and the method detection limit (MDL) for each parameter
 - g. Laboratory quality assurance results (e.g., percent recovery, response factors, etc.)
8. The monitoring reports shall be signed by an authorized person as required by Reporting Requirement D.8 of the Order.
9. Document Submittals. All documents required by this MRP shall be submitted electronically to the San Diego Water Board via the Geotracker database. The Geotracker database is located at:

<https://geotracker.waterboards.ca.gov/esi>
10. The Board may also request hard copies and/or electronic copies on a CD or other appropriate media, including email.
 - a. **Electronic Reporting.** The Electronic Reporting Regulations require electronic submission of any report or data required by a regulatory agency from a cleanup site after July 1, 2005. The electronic data shall be uploaded to Geotracker on or prior to the regulatory due dates set forth in this MRP or addenda thereto. Upon receipt of the documents, the San Diego Water Board shall use the email date and time to determine compliance with the regulatory due dates specified in this MRP. Note the following regarding email document submittals:

- i. Addressee. All documents shall include the following addressee information on the cover letter and/or document title page unless otherwise directed by the Executive Officer:

Executive Officer
California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, California 92108-2700
Attn: Ms. Sarah Mearon

- ii. Geotracker Global ID. All documents submitted to the San Diego Water Board shall include the following Geotracker Global ID in the header or subject line: L10003156547.
- iii. Document Size. Documents larger than 400 megabytes (MB) shall be divided into separate files at logical places in the report to keep the file sizes under 400 MB.

To comply with these requirements, the Discharger shall upload all documents, including the following minimum information, to the Geotracker database:

- i. Laboratory Analytical Data. Analytical data (including geochemical data) for all soil, groundwater, soil vapor, and indoor air samples in Electronic Deliverable Format (EDF).
 - ii. Locational Data. The latitude and longitude of all permanent sampling locations for which data are reported in EDF.
 - iii. Site Map. The site map shall be a stand-alone document and can be submitted in various electronic formats. An updated site map may be uploaded at any time.
- b. **Hard Copies and CDs**. If requested by the San Diego Water Board, the Discharger shall also provide any or all of the following to the Board: a hard copy of the complete document, a hard copy of the cover/transmittal letter, a hard copy of oversized drawings or maps, and an electronic copy (on a CD or other appropriate media) of the complete document.
 - c. **Electronic Mail**. If requested by the San Diego Water Board, the Discharger shall also submit a complete copy (in a text- searchable PDF file) of all documents including signed transmittal letters, professional certifications, and all data presented in the documents to:

sandiego@waterboards.ca.gov

Upon receipt of the documents, the Board shall use the email date and time to determine compliance with the regulatory due dates specified in this MRP.

B. Site Maintenance

1. The Discharger shall perform inspections of the landfill site semi-annually and report the results annually. The report shall contain information on site conditions and a discussion of any significant findings with regard to the following:
 - a. General site condition
 - b. Surface cover and slope
 - c. Drainage facilities
 - d. Groundwater and vadose zone monitoring networks
 - e. Methane gas control system
 - f. Observation of seepage from the site
 - g. Maintenance activities at the site

C. Groundwater Quality Monitoring

The following shall constitute the groundwater monitoring program for the Class I Waste Management Containment Cell, former Omar Rendering site:

1. Groundwater Gradient and Direction

For each monitored groundwater body, the Discharger shall measure the thickness of floating immiscible layer in each well, if any; measure the static water level in each well; and determine groundwater gradient and direction at least semi-annually at the times of expected highest and lowest elevations of the water level for the respective groundwater body as determined using historical data. Groundwater elevations for all background and downgradient wells for a given groundwater body shall be measured within a period of time short enough to avoid temporal variations in groundwater flow that could preclude accurate determination of groundwater gradient and direction.
2. Well Purging
 - a. Prior to sampling monitoring wells, the presence of a floating immiscible layer in all wells shall be determined. This shall be done prior to any other activity that may disturb the surface of the water in a well (e.g., water level measurements). If an immiscible layer is found, the San Diego Water Board shall be notified within 24 hours.
 - b. Prior to purging each monitoring well, the static water level shall be measured.
 - c. Field logs used during well purging shall be included in the monitoring report. The information contained in these logs shall include: the method of monitoring field

parameters, calibration of the field equipment, presence or absence of floating layer, method of purging (if a pump is used, include pump placement and pumping rate), date each well was purged, well recovery time, method of disposal of the purged water, an estimate of the volume of water purged from each well, the results of all field analyses, well number, depth to groundwater, method of measuring the water level and field personnel signatures.

3. Groundwater Sampling and Analysis

- a. The groundwater monitoring network shall consist of monitoring wells MW-2, MW-3, MW-8, and MW-13 as shown on Attachment No. 1 to this MRP.
- b. The Discharger shall sample groundwater monitoring wells MW- 2, MW-3, MW-8, and MW-13 and analyze the well water for the constituents listed in the table below semi-annually.

Constituent	Unit	Sampling Frequency	Reporting Frequency
pH	SU	Semi-annual	Annual
Specific conductance	µmhos/cm	Semi-annual	Annual
Total dissolved solids	mg/L	Semi-annual	Annual
Calcium	mg/L	Semi-annual	Annual
Iron	mg/L	Semi-annual	Annual
Magnesium	mg/L	Semi-annual	Annual
Sodium	mg/L	Semi-annual	Annual
Potassium	mg/L	Semi-annual	Annual
Carbonate	mg/L	Semi-annual	Annual
Bicarbonate	mg/L	Semi-annual	Annual
Chloride	mg/L	Semi-annual	Annual
Sulfate	mg/L	Semi-annual	Annual
Nitrate as nitrogen	mg/L	Semi-annual	Annual
Total phosphate	mg/L	Semi-annual	Annual
Alkalinity (CaCO ₃)	mg/L	Semi-annual	Annual
Volatile organics	µg/L	Semi-annual	Annual
Semivolatile organics	µg/L	Semi-annual	Annual
Arsenic	mg/L	Semi-annual	Annual
Barium	mg/L	Semi-annual	Annual
Cadmium	mg/L	Semi-annual	Annual
Copper	mg/L	Semi-annual	Annual
Lead	mg/L	Semi-annual	Annual
Manganese	mg/L	Semi-annual	Annual
Mercury	mg/L	Semi-annual	Annual
Molybdenum	mg/L	Semi-annual	Annual
Nickel	mg/L	Semi-annual	Annual
Selenium	mg/L	Semi-annual	Annual
Silver	mg/L	Semi-annual	Annual
Thallium	mg/L	Semi-annual	Annual

Constituent	Unit	Sampling Frequency	Reporting Frequency
Vanadium	mg/L	Semi-annual	Annual
Zinc	mg/L	Semi-annual	Annual

Notes:

µmhos/cm = micromhos per centimeter

µg/L = micrograms per liter

mg/L = milligrams per liter SU = standard units

D. Report to be Filed with the San Diego Water Board

A report shall be submitted to the San Diego Water Board no later than April 30 of each year. The report shall consist of at least the following:

1. Transmittal Letter

A letter summarizing the major findings during the monitoring period shall be submitted with the report. The transmittal letter shall include:

- a. A discussion of any requirement violations found since the last such report was submitted, as well as actions taken or planned for correcting the violations. If the Discharger has previously submitted a detailed time schedule for correcting said requirement violations, a reference to the correspondence transmitting such schedule shall be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter.
- b. A statement certifying that, under penalty of perjury, to the best of the signer's knowledge the report is true, complete, and correct. This statement shall be signed by an individual that meets the requirements contained in Reporting Requirement D.8 of the Order.

2. Annual Summary Report

The Discharger shall submit an annual summary report to the San Diego Water Board covering the previous 12 months. The annual reporting period ends on March 31. The annual summary report shall contain, but not be limited to, the following:

- a. Site maintenance – A summary of semi-annual inspections and a discussion of any significant findings as described in B. Site Maintenance of this MRP.
- b. Groundwater gradient and direction – For each monitored groundwater body, a description and graphical presentation (e.g., arrow on a map) of the gradient and direction of groundwater flow under and around the containment cell.
- c. Well information – For each monitoring well, a description of the method and time of water level measurement, and a description of the purge method used before sampling to remove stagnant water and after sampling to remove the water that was in the well bore while the sample was being collected.

- d. Sampling information – For each monitoring well and background monitoring well addressed by the report, a description of the type of pump – or other device – used and its vertical placement for sampling, and a detailed description of the information contained in A.7 of this MRP.
- e. Map – A topographic map at an appropriate scale showing the locations of observation stations, monitoring wells, and background monitoring wells, as well as the direction of groundwater flow at the site.
- f. Graphical presentation of analytical data - For each monitoring well, the laboratory analytical data for all samples collected within at least the previous five calendar years in graphical format. Each graph shall plot the concentration of the constituent over time for a given monitoring well, at a scale appropriate to show trends or variations in water quality.
- g. Compliance record discussion - A comprehensive discussion of the compliance record, and the result of any corrective actions taken or planned that may be needed to bring the Discharger into full compliance with the waste discharge requirements.
- h. Summary of changes - A written summary of the monitoring results and monitoring system(s), indicating any changes made or observed since the previous annual report.

E. Reporting

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

Report Frequency	Report Period	Report Due
Annual	April 1 – March 31	April 30

Unless otherwise directed in writing by the Executive Officer, monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, California 92108-2700

ORDERED BY:



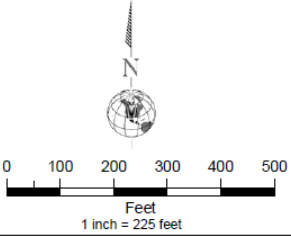
August 29, 2017



LEGEND

Field Sample Collection Location Point

- Program Monitoring Well
- Non-program wells sampled/gauged
- Non-program wells gauged only
- Abandoned Monitoring Well
- Woodward-Clyde Well (1990)
- Waste Cell
- Former OMAR Property Boundary



OMAR FORMER RENDERING SITE
CHULA VISTA, CA

FIGURE X
PROGRAM WELLS



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