

Los Angeles Regional Water Quality Control Board

May 14, 2014

Mr. Jose Pena, Landfill Supervisor
Vulcan Materials Company
10401 West Tuxford street
Sun Valley, California 91352

**REVISED WASTE DISCHARGE REQUIREMENTS FOR RELIANCE PIT LANDFILL,
IRWINDALE, CALIFORNIA (File No. 91-060, Order No. 91-120, CI 7106, Geotracker
Global ID L10006525481)**

Dear Mr. Pena:

Reference is made to our letter dated March 19, 2014, indicating that this Regional Water Quality Control Board (Regional Board) intends to revise the Waste Discharge Requirements (WDRs) for the Reliance Pit Landfill (Regional Board Order No. 91-120, adopted on December 2, 1991). Pursuant to Division 7 of the California Water Code, this Regional Board, at a public hearing held on May 8, 2014, reviewed the tentative requirements, considered all factors in the case, and adopted Order No. R4-2014-0061 (copy attached) that includes revised WDRs for the subject site. The revised WDRs package will be posted on the Regional Board's website at http://www.waterboards.ca.gov/losangeles/board_decisions/adopted_orders/. Hard copies of the Order may be obtained by contacting the Regional Board staff listed below.

The Regional Board is implementing an Electronic Content Management (ECM, or Paperless Office) system. All reports required under the WDRs shall be submitted to the State Water Resources Control Board GeoTracker database. All correspondences, including self-monitoring reports, shall be submitted to GeoTracker in searchable Portable Document Format (PDF). Groundwater monitoring data, including locations of groundwater monitoring points, shall also be submitted in Electronic Deliverable Format (EDF) to GeoTracker. The GeoTracker Global ID for the subject site is **L10006525481**.

If you have any questions or need additional information, please contact Mr. Douglas Cross (Project Manager) at (213) 620-2246 or dcross@waterboards.ca.gov, or me at (213) 620-2253 or wyang@waterboards.ca.gov.

Sincerely,



Wen Yang, Ph.D., C.E.G.
Chief of Land Disposal Unit

Enclosures

cc: Leslie Graves, Land Disposal Program, State Water Resource Control Board
Martin Perez, California Department of Resources Recycling and Recovery
Gerardo Villalobos, Los Angeles County Department of Public Health
Dan Zeller, Vulcan Materials Company
Carol Williams, Main San Gabriel Basin Watermaster
William Tam, City of Irwindale
Pawan Sharma, CDM Smith Inc.

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. R4-2014-0061

WASTE DISCHARGE REQUIREMENTS

For

VULCAN MATERIALS COMPANY

Reliance Pit Landfill

(File No. 91-060)

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), finds:

1. CalMat Properties Company, doing business as Vulcan Materials Company (Discharger), owns and operates the Reliance Pit (formerly Reliance Pit No. 2) Landfill (Landfill) located at 15990 Foothill Boulevard, Irwindale, California. The Landfill is bounded by Foothill Boulevard on the north, Irwindale Avenue on the east, the 210 freeway on the south, and Las Lomas Road on the west (Figure 1). The Landfill occupies former gravel mining pit of approximately 89 acres that is centered at approximate latitude 34°07'53"N and longitude 117°56'15.5"W (Figure 2).
2. The former mining pit has a surrounding surface elevation from 560 to 580 feet above mean sea level (amsl) and a maximum low point within the pit of 353 feet amsl.
3. On December 2, 1991, the Regional Board adopted Order No. 91-120 that includes waste discharge requirements (WDRs) for the discharge of inert solid wastes for the reclamation of the Landfill. Waste fill placed at the Landfill is non-water soluble, non-decomposable inert solids of the following nature: earth, rock, gravel, concrete, glass, bricks, broken asphalt, and inert aggregate mining wastes.
4. The capacity of the Landfill was estimated at 17.6 million cubic yards with an expected operation of 20 years based on a loading rate of 3,000 cubic yards per day, with 300 working days per year. The most recent evaluation of the operations in December 2013 indicates that the Landfill has approximately 11.3 million cubic yards of capacity left, which will be filled over an anticipated period of 7 to 15 years.
5. Section 20230(a) of title 27, California Code of Regulations (27 CCR), provides that "*Inert waste is that subset of solid waste that does not contain hazardous waste or soluble pollutants at concentrations in excess of applicable water quality objectives, and does not contain significant quantities of decomposable waste.*"
6. Section 20230(c) of 27 CCR provides that the Regional Board can prescribe individual or general WDRs for discharges of inert wastes.

May 8, 2014

7. California Water Code (CWC) section 13263 (e) provides that all WDRs shall be reviewed periodically and, upon such review, may be revised by the Regional Board to comply with changing state or federal laws, regulations, policies, or guidelines. This Order revises the WDRs for the Landfill to include updated requirements and describe current site conditions. The Discharger has submitted to the Regional Board a revised report of waste discharger (ROWD) in accordance with the CWC, dated January 31, 2014, to facility the revision of the WDRs.
8. The City of Irwindale adopted a Negative Declaration regarding the reclamation plan of the Landfill on February 29, 1993, in accordance with the California Environmental Quality Act (Public Resource Code, §21000 et seq.) Revision of existing waste discharge requirements is exempt from CEQA in accordance with the CWC Section 13389.
9. In 2005 the Discharger submitted an Inert Debris Engineered Fill Operations (IDEFO)¹ Plan (Engineered Fill Plan) to the Los Angeles County Department of Health Services (LA County DHS) after determining that the placement of waste, at 90% relative compaction, would not support the desired end use of commercial and retail development for the property. The Discharger decided to remove the material that had been placed since the Landfills start-up in 1993 to and redispose of such waste with 93% relative compaction. The LA County DHS approved the Engineered Fill Plan with a letter dated May 31, 2005. The re-compaction operation was completed in 2010.
10. In November 2006 the Discharger submitted a Revised Engineered Fill Plan to, and was approved by, the LA County DHS to establish protocols for future placement of waste and stated that the material would be placed in accordance with title 14 of California Code of Regulations (14 CCR) Division 7, Chapter 3 and 27 CCR Division 2, Chapter 3.
11. The Landfill overlies an aquifer that is a major source of drinking water in the Main San Gabriel Basin in the Los Angeles-San Gabriel Hydrologic Unit. The San Gabriel River is located approximately one mile west of the Landfill. The unlined river has been used for spreading groundwater for recharge purposes. Aquifers within the basin are comprised primarily of coarse sand and gravel which has a reported permeability of 5,000 feet/day parallel to and 100 feet/day transverse to the depositional axis of the river. The direction of groundwater flow at the Landfill is generally to the south and southwest.
12. In 1990, groundwater elevation was reported at the up-gradient monitoring well (Well 4266A) to be approximately 250 feet amsl at a neighboring site. Since then groundwater elevations have varied from 192 feet amsl to 322 feet amsl, which is approximately 32 feet below the lowest point of the pit bottom.

¹ Title 14 of California Code of Regulations (14 CCR), Chapter 3, Article 5.95, Section 17388 (l) defines that "Inert Debris Engineered Fill Operation" means a disposal activity exceeding one year in duration in which fully cured asphalt, uncontaminated concrete (including steel reinforcing rods embedded in the concrete), brick, ceramics, clay and clay products, which may be mixed with rock and soil, are spread on land in lifts and compacted under controlled conditions to achieve a uniform and dense mass which is capable of supporting structural loading as necessary, and having other characteristics appropriate for an end use approved by all governmental agencies having jurisdiction (e.g., roads, building sites, or other improvements) where an engineered fill is required to facilitate productive use of the land. The engineered fill shall be constructed and compacted in accordance with all applicable laws and ordinances and shall be certified by a Civil Engineer, Certified Engineering Geologist, or similar professional licensed by the State of California.

13. The Landfill is within a 100-year flood plain hazard zone as defined by the Federal Emergency Management Agency (FEMA) and falls within the FEMA Zone C designation or “zone of minimal flooding”.
14. The Landfill is subject to reclamation as required by the State Surface Mining and Reclamation Act of 1975 (SMARA) (Public Resources Code § 2710 et seq.) and the Surface Mining Ordinance of the City of Irwindale. The Discharger has developed an amendment reclamation plan for the Landfill that was approved by the City of Irwindale with Resolution No. 2012-37-2576, dated July 25, 2012. The amendment reclamation plan was prepared by the Discharger to combine the Reliance I Quarry and Reliance II Landfill in Irwindale and the Reliance-Azusa Quarry in Azusa, California, under one reclamation plan. The requirements in this Order, as they are met, are in conformance with the requirements of SMARA.
15. The Landfill currently has the zoning classification of M2 (Heavy Manufacturing) and the General Plan Land Designation is “industrial”. The land uses in the vicinity of the Landfill are the following type: “agricultural, recreational, commercial, and industrial” The Discharger intends to reclaim the land for retail and commercial usage upon completion of fill activities.
16. On December 20, 2005, the City of Irwindale passed Resolution No. 2005-89-2106 that adopted technical guidelines for the backfilling of open-pit mines within the City, including: Guidelines for Stability Analyses of Open-pit Mine Slopes, Guidelines for Drainage and Erosion Control for Open-pit Mines, Guidelines for Underwater Backfilling of Open-Pit Mines, and Guidelines for Above-Water Backfilling of Open-Pit Mines.
17. Until recently, operations of the Landfill have included infiltration of aggregate wash water from the adjacent gravel mining operations to the north at an unlined pond in the south west corner of the Landfill. However, such practice has been ceased and will not be resumed in the future. The wash water pond was located in a portion of the Landfill that had not received waste. Such practice has been permanently ceased and will not be resumed in the future. Sediment associated with the pond will be managed to comply with the IDEFO Plan and the WDRs.
18. All surface runoff is 100% contained onsite. All storm water infiltrates the unpaved site.
19. On June 13, 1994, this Regional Board adopted a revised *Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan). The Basin Plan (including its subsequent amendments) designates the following beneficial uses for groundwater within the Main San Gabriel Basin: municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply. The requirements in this Order, as they are met, are in conformance with the goals of the Basin Plan.

The Regional Board has notified the Discharger and interested agencies and persons of its intent to adopt WDRs for this disposal of waste to land, and has provided interested persons with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED, that the Discharger shall comply with the following at the Landfill:

A. Acceptable Materials:

1. Wastes disposed of at the Landfill shall be limited to inert wastes as defined in 27 CCR, section 20230(a), including but not limited to: native geological materials (such as clay, silt, gravel, etc.) and materials that are acceptable at an Inert Debris Engineered Fill Operations as defined in Section 17388(l) of 14 CCR, including uncontaminated concrete, crushed glass, bricks, ceramics, clay and clay products, rock and clean soil, and fully cured asphalt.
2. The Discharger shall remove and relocate to a legal point of disposal any wastes that are discharged in violation of the requirements of this Order. For the purpose of these requirements, a legal point of disposal is defined as one for which WDRs have been established by a California regional water quality control board, and is in full compliance therewith. In the event that the Discharger opts for a legal point of disposal outside the State of California, the legal point of disposal means a facility that is lawfully permitted under applicable state and federal laws to receive the type of waste improperly disposed of at the site.

B. Prohibitions:

1. No hazardous wastes, designated wastes, tires, or liquid wastes shall be deposited at the Landfill.
2. Non-hazardous solid wastes (decomposable organic refuse such as, but not necessarily limited to, ordinary household and commercial refuse, tin cans, metals, paper and paper products, plasterboard, cloth and clothing, wood and wood products, lawn clippings, sod, shrubbery, hair, hide, bones, dead animals, roofing paper, tar paper, unquenched ashes mixed with refuse, market refuse, garbage, etc.) shall not be deposited at the Landfill.
3. Materials of a toxic nature such as insecticides and poisons shall not be deposited at the Landfill.
4. No radioactive material as determined by a regulatory agency with jurisdictional authority shall be deposited at the Landfill.
5. No asbestos or asbestos products shall be deposited at the Landfill.
6. Erosion of deposited materials by surface flow shall be prevented.
7. Neither the discharge nor any treatment of wastes shall cause pollution or nuisance.

8. No chemical additives shall be used at the Landfill unless such use is approved by the Executive Officer in advance.

C. Groundwater Monitoring:

1. Within 90 days of the adoption of this Order, the Discharger shall submit a report to the Regional Board, for approval of the Executive Officer, providing information for the addition of one more groundwater monitoring point for the Landfill, for the measurement of groundwater elevation only, so that an accurate groundwater gradient can be established. If an existing groundwater monitoring point is not available within a reasonable distance for determining groundwater gradient, the Discharger shall propose the installation of a new groundwater monitoring point pursuant to section C.6 of this Order.
2. The Discharger shall implement the attached Monitoring and Reporting Program (MRP) No. CI-7106, and revisions thereto, which is incorporated herein by reference, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the Landfill or any unreasonable impairment of beneficial uses associated with (or caused by) discharge of wastes from the Landfill. MRP No. CI-7106 is designed to satisfy both federal and state regulatory monitoring requirements.
3. At any time, the Discharger may file a written request, including appropriate supporting documents, with the Executive Officer, proposing modifications to MRP No. CI-7106. The Discharger shall implement any changes in the revised MRP approved by the Executive Officer upon receipt of a signed copy of the revised MRP.
4. Unless otherwise approved by the Executive Officer, all analyses shall be conducted at a laboratory certified by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "*Test Methods for Evaluating Physical/Chemical Methods*" (SW-846) promulgated by the United States Environmental Protection Agency.
5. The Discharger shall provide for proper handling and disposal of water purged from monitoring wells at the Landfill during sampling. Water purged from a monitoring well shall not be returned to that well (or any other monitoring well).
6. For any monitoring points installed at the Landfill in the future, the Discharger shall submit technical reports for approval by the Executive Officer prior to installation. These technical reports shall be submitted at least 60 days prior to the anticipated date of installation of the wells. These reports shall be accompanied by:
 - a. A map depicting the locations of the groundwater monitoring points and a rationale for their number, depths, and spatial distribution.
 - b. Drawings and data depicting construction details of the proposed groundwater monitoring network. These must include:

- casing, borehole diameters and methods of drilling;
- casing materials to be used;
- depth of each borehole;
- size, length, and position of screen;
- method of joining sections of casing;
- nature and emplacement of filter pack and rationale for them;
- depth, composition, and emplacement of seals; and
- method and timetable for well development.

Within 30 days of the installation of a groundwater monitoring well (or monitoring point) at the Landfill, the Discharger shall submit an as-built report to the Regional Board and the California Department of Water Resources (DWR), including delineation of the stratigraphy encountered, all water bearing zone(s) encountered and water quality data.

7. As of the effective date of this Order, the compliance monitoring points at the Landfill shall consist of those wells listed in section II.B of the MRP. All monitoring points shall be monitored pursuant to this Order or as directed by the Executive Officer through future revisions of the MRP
8. The Discharger shall install any additional groundwater, soil pore liquid, soil pore gas, or leachate monitoring devices necessary to comply with the MRP, as adopted or as revised by the Executive Officer.
9. The point of compliance (POC) for groundwater monitoring for the Landfill is a vertical surface located at the hydraulically downgradient limit of the Landfill that extends through the uppermost aquifer underlying the Landfill pursuant to 27 CCR section 20405(a).

D. Water Quality Protection Standards:

1. In accordance with the Basin Plan, the following groundwater quality protection standards are established for the Landfill:

<u>Parameter</u>	<u>Units</u>	<u>Water Quality Protection Standard*</u>
Total dissolved solids	mg/L	450
Sulfate	mg/L	100
Chloride	mg/L	100
Nitrate (as NO ₃)	mg/l	45
Boron	mg/L	0.5
pH	pH unit	6.5 - 8.5

* Based on the water quality objectives in the Basin Plan for the western area of the Main San Gabriel Basin.

2. Groundwater protection standards for other inorganic and organic pollutants for the site are the MCLs adopted by the California Department of Public Health pursuant to the California Safe Drinking Water Act, or subsequent revisions.
3. WQPSs may be modified by the Regional Board based on more recent and/or more complete groundwater monitoring data, changes in background water quality, or for any other valid reason. The points of compliance of groundwater protection standards for the Landfill shall be the downgradient groundwater monitoring points established in the MRP No. CI 7106, which is incorporated herein by reference.

F. Provisions:

1. The Discharger shall take any and all necessary measures to prevent unauthorized disposal of wastes at the Landfill by instituting a load-checking program. An updated load-checking program shall be submitted to the Regional Board within 90 days of the adoption of this Order. As a minimum, the load-checking program shall include the following:
 - a. A computerized waste-tracking system that, for each load of waste, records at least the following information: the hauler's name, type of material, the source where the waste was generated, and the general area at the Landfill where the waste is disposed of;
 - b. A surveillance system that includes visual and instrumental inspections of each load of waste and questioning the hauler if necessary;
 - c. A training and education program for all landfill employees concerning acceptable and unacceptable materials as provided in this Order; and
 - d. In addition to regular load-checking activities at the Landfill, for any project that involves the generation of more than 1,000 cubic yards of wastes from a single site during a calendar year, the Discharger shall require the generator and/or hauler of the wastes, before discharge the wastes to the Landfill, to provide background information, including laboratory analytical data and environmental assessment reports (if available), to ensure that the wastes are not contaminated. Such information shall be documented and included in the quarterly reports required in the MRP.
3. The Discharger shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with CWC section 13267. Failure or refusal to furnish these reports or falsifying any information provided therein renders the Discharger guilty of a misdemeanor and subject to the penalties stated in CWC section 13268. Monitoring reports shall be submitted in accordance with the specifications contained in the MRP, as directed by the Executive Officer. Additionally, monitoring reports shall be prepared and signed by a California professional civil engineer or professional geologist. The MRP is subject to periodic revisions as warranted and approved by the Executive Officer.

4. The Discharger shall use the statistical procedures contained in 27 CCR section 20415(e)(7), to determine if there is a statistically significant increase for any background indicator parameter. Upon approval of the Executive Officer, alternative statistical procedures may be used.
5. In the event that a statistically significant increase is observed for any background indicator parameter, the Discharger shall establish an evaluation program in accordance with 27 CCR section 20425, unless such a program has already been submitted.
6. If evaluation monitoring determines that there is a statistically significant increase of any background indicator parameter that is resulted by the discharge of waste at the Landfill, then the Discharger shall institute a corrective action monitoring program in accordance with 27 CCR section 20430.
7. If the Discharger becomes aware that it failed to submit any relevant facts in any report to the Regional Board, it shall submit such facts or information within fourteen days of its discovery of the omission.
8. All applications, reports, or information submitted to the Regional Board shall be signed and certified as follows:
 - a. Applications, ROWDs, or similar documents shall be signed as follows:
 - i. For a corporation - by a principal executive officer of at least the level of vice-president.
 - ii. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - iii. For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.
 - iv. For a military installation - by the base commander or the person with overall responsibility for environmental matters in that branch of the military.
 - b. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph [a] of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:
 - i. The authorization is made in writing by a person described in paragraph [a] of this provision;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - iii. The written authorization is submitted to the Executive Officer.

- c. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

9. The Discharger shall maintain copies of this Order at the Landfill so as to be available at all times to personnel operating the Landfill.
10. The Discharger shall file with this Regional Board a report of any material change or proposed change in the character, location, boundaries or quantity of this waste discharge at least 120 days prior to the date of such proposed change.
11. The Regional Board shall be notified of any incident at the Landfill that are in violation of this Order and that may endanger the environment, by telephone within 24 hours from the time the Discharger becomes aware of the circumstances, and in writing within 14 days of the time that the Discharger becomes aware of the circumstances. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence of the incident. All instances of noncompliance with this Order shall also be reported to the Regional Board in the same manner as stated above, and shall also be included in the next scheduled monitoring report.
12. Within thirty (30) days of any change in name of operator or in control or ownership of land or waste disposal facilities owned or controlled by the Discharger, the Discharger shall:
 - a. Notify this Regional Board in writing of such a change; and
 - b. Notify the succeeding owner or operator by letter, a copy of which shall be filed with this Regional Board, of the existence of this Order.
13. Ninety (90) days prior to cessation of disposal operations at this Landfill, the Discharger shall submit a technical report to the Regional Board describing the methods and controls to be used to assure protection of the quality of receiving waters during final operations and with any proposed subsequent use of the land. Such methods and controls shall comply with the foregoing technical report and the WDRs. The report shall be prepared under the direct supervision of a California registered geologist or professional civil engineer, or a California-certified engineering geologist.

14. This Regional Board considers the Discharger to have continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to the Landfill during subsequent use of the land for other purposes.
15. These requirements do not exempt the Discharger from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility, and they leave unaffected any further restraint on the disposal of wastes at the Landfill which may be contained in other statutes or required by other agencies.
16. In accordance with CWC section 13263(g), these requirements shall not create a vested right to continue to discharge and are subject to rescission or modification. All discharges of waste into the waters of the State are privileges, not rights.
17. The Discharger shall comply with all conditions of this Order and any additional conditions prescribed by the Regional Board in addenda thereto. Noncompliance with this Order constitutes a violation of the CWC and is grounds for:
 - a. enforcement action;
 - b. termination, revocation and re-issuance, or modification of this Order;
 - c. denial of a ROWD in application for new or revised WDRs; or
 - d. any combination of the foregoing.
16. Failure to comply with the terms and conditions of this Order may result in imposition of civil liability against the Discharger by this Regional Board, either by the Board or judicially by the Superior Court, in accordance with CWC section 13350 et. seq. and/or referral to the Attorney General of the State of California for such legal action as may be deemed appropriate.
17. The Discharger shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order
18. This Order includes the attached "Standard Provisions Applicable to Waste Discharge Requirements" (Attachment "W"), which is incorporated herein by references. If there is any conflict between provisions stated hereinbefore and the attached "Standard Provisions Applicable to Waste Discharge Requirements", those provisions attached hereinbefore prevail.
18. In accordance with CWC section 13263, these requirements are subject to periodic review and revision by this Regional Board.
19. The filing of a request by the Discharger for the modification, revocation and re-issuance, or termination of this Order or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

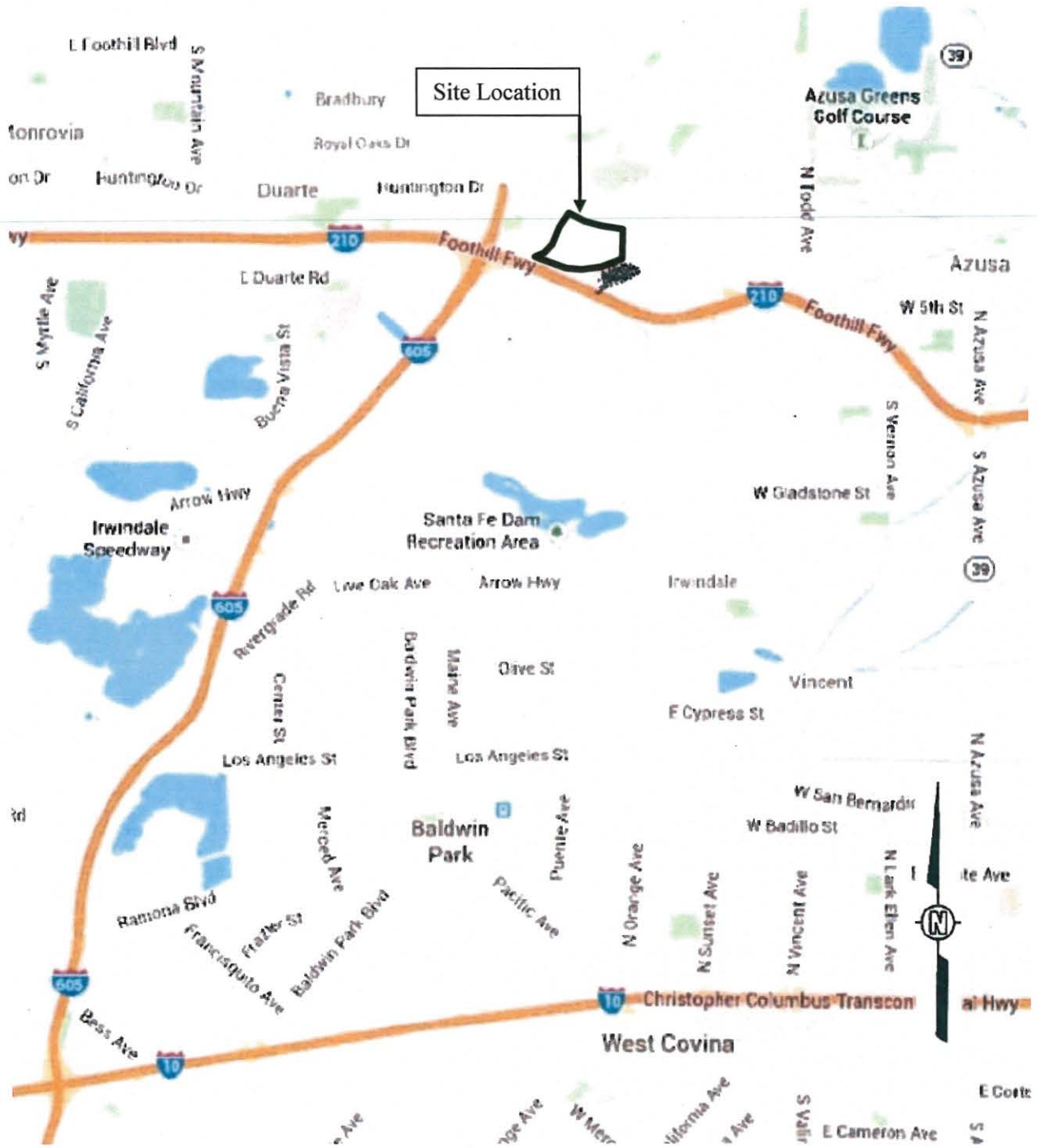
20. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
21. Pursuant to section 13320 of CWC, any aggrieved party may seek review of this Order by filing a petition with the State Board. The petition must be received by the State Water Resources Control Board, P.O. Box 100, Sacramento, CA 95812, within 30 days of the date this Order is adopted.
22. This Order becomes effective on the date of adoption by this Regional Board.

E. Termination

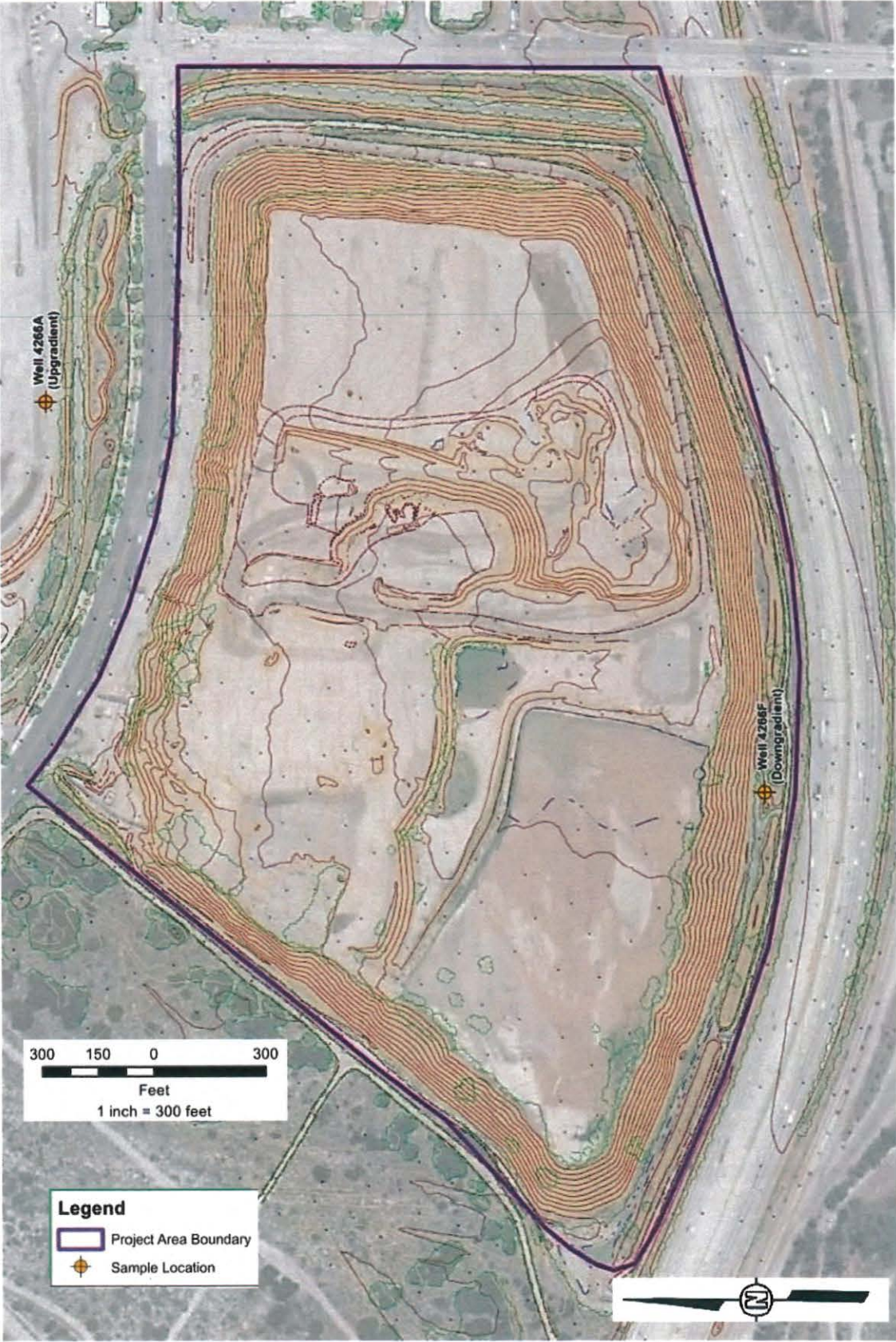
Except for violation enforcement purposes, Regional Board Order No. 91-120, adopted October 3, 1991, is hereby terminated.

I, Samuel Unger, P.E, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an order adopted by the California Regional Water Quality Control Board, Los Angeles Region on May 8, 2014.


Samuel Unger, P.E
Executive Officer



Site Location Map
Figure 1



Site Map with Well Locations
Figure 2

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

**MONITORING AND REPORTING PROGRAM NO. CI 7106
for
VULCAN MATERIALS COMPANY
Reliance Pit Landfill
(File No. 91-060)**

This Monitoring and Reporting Program (MRP), No. CI-7106, 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 Reliance Pit Landfill (Landfill) pursuant to California Water Code (CWC) section 13267(b). This MRP is incorporated by reference into Regional Board Order No. **R4-2014-0061** (Order), adopted on May 8, 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.

- 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 7106) must be clearly displayed on the title page to facilitate routing to the appropriate staff and file.
- K. Electronic Data Submittal: 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 4266A located just north of the Landfill, downgradient groundwater monitoring well 4266F located onsite along the south side 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 Discharge to install additional groundwater monitoring points, including the installation of monitoring wells, with the progress of landfill operations at the Landfill.

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 Department of Public Health 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.

¹ ml/l = milligram per liter.

² µg/l = microgram per liter.

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

**Reliance Pit Landfill
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- G. If purged groundwater from the monitoring wells is used at the Landfill, the total volume, and areas of usage shall also be reported.

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
Samuel Unger, P.E., Executive Officer

Date: May 8, 2014

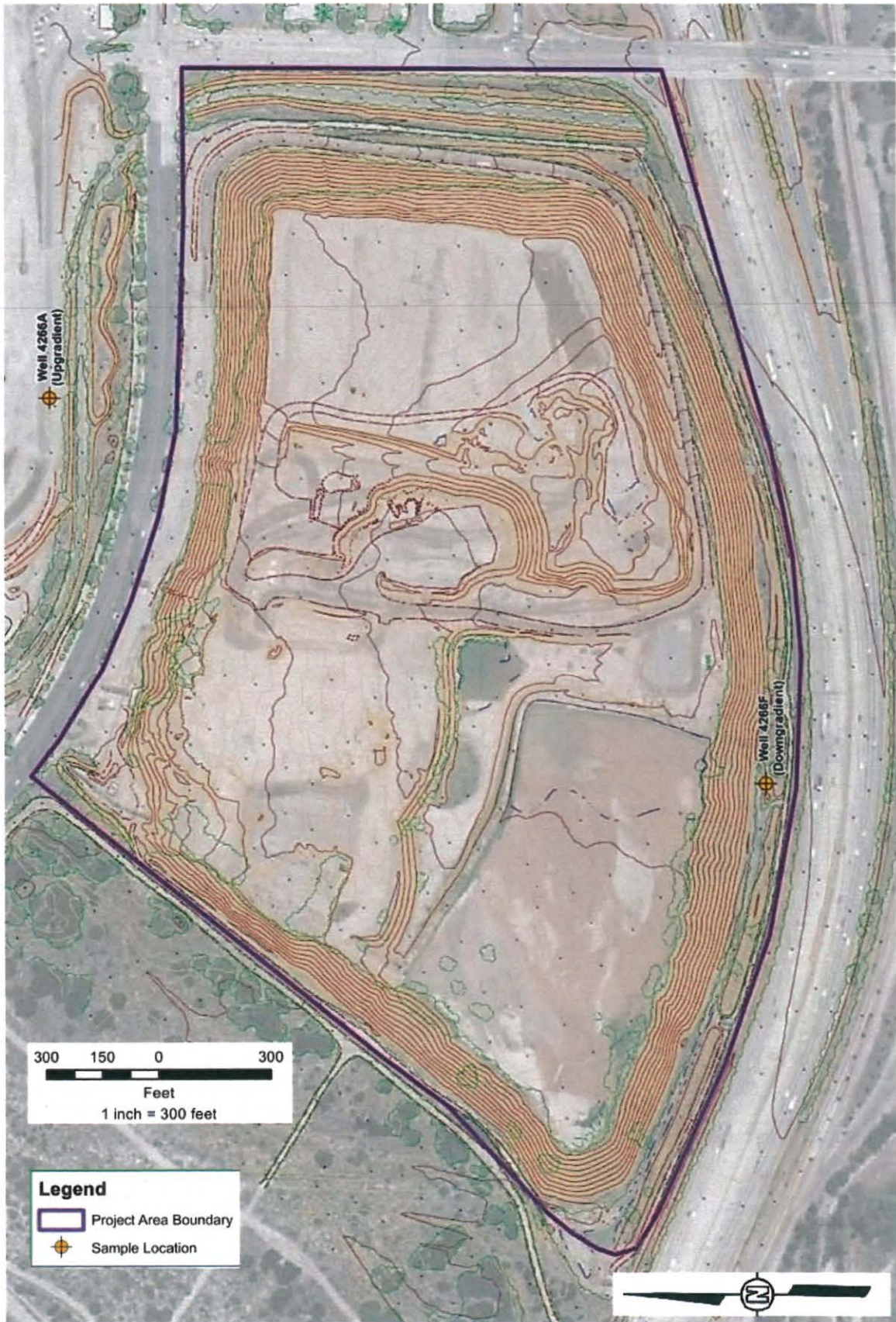


Figure T - 1. Groundwater Monitoring Well Locations

STANDARD PROVISIONS
APPLICABLE TO WASTE DISCHARGE REQUIREMENTS

1. DUTY TO COMPLY

The discharger must comply with all conditions of these waste discharge requirements. A responsible party has been designated in the Order for this project, and is legally bound to maintain the monitoring program and permit. Violations may result in enforcement actions, including Regional Board orders or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board. [CWC Section 13261, 13263, 13265, 13268, 13300, 13301, 13304, 13340, 13350]

2. GENERAL PROHIBITION

Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code (CWC). [H&SC Section 5411, CWC Section 13263]

3. AVAILABILITY

A copy of these waste discharge requirements shall be maintained at the discharge facility and be available at all times to operating personnel. [CWC Section 13263]

4. CHANGE IN OWNERSHIP

The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on. [CWC Sections 13267 and 13263]

5. CHANGE IN DISCHARGE

In the event of a material change in the character, location, or volume of a discharge, the discharger shall file with this Regional Board a new Report of Waste Discharge. [CWC Section 13260(c)]. A material change includes, but is not limited to, the following:

- (a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the Waste.

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Standard Provisions Applicable to
Waste Discharge Requirements

- (b) Significant change in disposal method, e.g., change from a land disposal to a direct discharge to water, or change in the method of treatment which would significantly alter the characteristics of the waste.
- (c) Significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems.
- (d) Increase in flow beyond that specified in the waste discharge requirements.
- (e) Increase in the area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. [CCR Title 23 Section 2210]

6. REVISION

These waste discharge requirements are subject to review and revision by the Regional Board. [CCR Section 13263]

7. TERMINATION

Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information. [CWC Sections 13260 and 13267]

8. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the discharger from his liability under Federal, State or local laws, nor do they create a vested right for the discharger to continue the waste discharge. [CWC Section 13263(g)]

9. SEVERABILITY

Provisions of these waste discharge requirements are severable. If any provision of these requirements are found invalid, the remainder of the requirements shall not be affected. [CWC Section 921]

Standard Provisions Applicable to
Waste Discharge Requirements

10. OPERATION AND MAINTENANCE

The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order. [CWC Section 13263(f)]

11. HAZARDOUS RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the discharger is in violation of a prohibition in the applicable Water Quality Control plan. [CWC Section 1327(a)]

12. PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This provision does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan. [CWC Section 13272]

Standard Provisions Applicable to
Waste Discharge Requirements

13. ENTRY AND INSPECTION

The discharger shall allow the Regional Board, or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
- (d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order, or as otherwise authorized by the California Water Code, any substances or parameters at any location. [CWC Section 13267]

14. MONITORING PROGRAM AND DEVICES

The discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted. [CWC Section 13267]

All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year, or more frequently, to ensure continued accuracy of the devices. Annually, the discharger shall submit to the Executive Office a written statement, signed by a registered professional engineer, certifying that all flow measurement devices have been calibrated and will reliably achieve the accuracy required.

Unless otherwise permitted by the Regional Board Executive officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. The Regional Board Executive Officer may allow use of an uncertified laboratory under exceptional circumstances, such as when the closest laboratory to the monitoring location is outside the State boundaries and therefore not subject to certification. All analyses shall be required to be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" [40CFR Part 136] promulgated by the U.S. Environmental Protection Agency. [CCR Title 23, Section 2230]

Standard Provisions Applicable to
Waste Discharge Requirements

15. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or to reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies, for example, when the primary source of power of the treatment facility fails, is reduced, or is lost. [CWC Section 13263(f)]

16. DISCHARGE TO NAVIGABLE WATERS

Any person discharging or proposing to discharge to navigable waters from a point source (except for discharge of dredged or fill material subject to Section 404 of the Clean Water Act and discharge subject to a general NPDES permit) must file an NPDES permit application with the Regional Board. [CCR Title 2 Section 22357]

17. ENDANGERMENT TO HEALTH AND ENVIRONMENT

The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Office within 24 hours:

- (a) Any bypass from any portion of the treatment facility.
- (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.
- (c) Any treatment plan upset which causes the effluent limitation of this Order to be exceeded. [CWC Sections 13263 and 13267]

18. MAINTENANCE OF RECORDS

The discharger shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies off all reports required by this Order, and record of all data used

Standard Provisions Applicable to
Waste Discharge Requirements

to complete the application for this Order. Records shall be maintained for a minimum of three 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 Regional Board Executive Officer.

Records of monitoring information shall include:

- (a) The date, exact place, and time of sampling or measurement;
 - (b) The individual(s) who performed the sampling or measurement;
 - (c) The date(s) analyses were performed;
 - (d) The individual(s) who performed the analyses;
 - (e) The analytical techniques or method used; and
 - (f) The results of such analyses.
19. (a) All application reports or information to be submitted to the Executive Office shall be signed and certified as follows:
- (1) For a corporation – by a principal executive officer or at least the level of vice president.
 - (2) For a partnership or sole proprietorship – by a general partner or the proprietor, respectively.
 - (3) For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official.
- (b) A duly authorized representative of a person designated in paragraph (a) of this provision may sign documents if:
- (1) The authorization is made in writing by a person described in paragraph (a) of this provision.
 - (2) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
 - (3) The written authorization is submitted to the Executive Officer.

Any person signing a document under this Section shall make the following certification:

Standard Provisions Applicable to
Waste Discharge Requirements

"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. [CWC Sections 13263, 13267, and 13268]"

20. OPERATOR CERTIFICATION

Supervisors and operators of municipal wastewater treatment plants and privately owned facilities regulated by the PUC, used in the treatment or reclamation of sewage and industrial waste shall possess a certificate of appropriate grade in accordance with Title 23, California Code of Regulations Section 3680. State Boards may accept experience in lieu of qualification training. In lieu of a properly certified wastewater treatment plant operator, the State Board may approve use of a water treatment plan operator of appropriate grade certified by the State Department of Health Services where reclamation is involved.

Each plan shall be operated and maintained in accordance with the operation and maintenance manual prepared by the municipality through the Clean Water Grant Program [CWC Title 23, Section 2233(d)]

ADDITIONAL PROVISIONS APPLICABLE TO
PUBLICLY OWNED TREATMENT WORKS' ADEQUATE CAPACITY

21. Whenever a publicly owned wastewater treatment plant will reach capacity within four years the discharger shall notify the Regional Board. A copy of such notification shall be sent to appropriate local elected officials, local permitting agencies and the press. The discharger must demonstrate that adequate steps are being taken to address the capacity problem. The discharger shall submit a technical report to the Regional Board showing flow volumes will be prevented from exceeding capacity, or how capacity will be increased, within 120 days after providing notification to the Regional Board, or within 120 days after receipt of notification from the Regional Board, of a finding that the treatment plant will reach capacity within four years. The time for filing the required technical report may be extended by the Regional Board. An extension of 30 days may be granted by the Executive Officer, and longer extensions may be granted by the Regional Board itself. [CCR Title 23, Section 2232]