

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER R7-2016-0014

WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF IMPERIAL, DEPARTMENT OF PUBLIC WORKS, OWNER/OPERATOR
CALEXICO WASTE MANAGEMENT FACILITY
CLASS III MUNICIPAL LANDFILL
Calexico – Imperial County

The California Regional Water Quality Control Board, Colorado River Basin Region, (Colorado River Basin Water Board) finds that:

Discharger

1. Imperial County Department of Public Works (Discharger), 155 South 11th Street, El Centro, California 92243-2853, owns and operates the Calexico Waste Management Facility (Calexico WMF). The Calexico WMF is assigned the California Integrated Water Quality System (CIWQS) waste discharge identification (WDID) number 7A130301021 and GeoTracker Global ID number L10006190805.
2. The California Code of Regulations (CCR), Title 27, Article 4, Section 21710(a) requires any persons proposing to discharge solid waste at a waste management unit that is subject to regulation by both the California Department of Resources Recycling and Recovery (CalRecycle) and the Regional Water Quality Control Board shall make all Report of Waste Discharge (ROWD) submittals (including updates to previously submitted ROWD) in the form of a Joint Technical Document (JTD).
3. On June 9, 2011, the Discharger submitted *Revision 2: June 2001, JTD and Preliminary Closure/Post Closure Maintenance Plan for Calexico Solid Waste Site*.
4. The Calexico WMF is currently regulated by Board Order R7-2002-0104, adopted on June 26, 2002. This Order updates Order R7-2002-0104 to incorporate current laws and regulations as set forth in the California Water Code and combined State Water Resources Control Board (State Water Board) and CalRecycle Regulations, Division 2, Title 27 (Title 27), and federal regulations under the Resource Conservation and Recovery Act (RCRA), also known as Subtitle D for non-hazardous solid wastes.

Definitions

5. Definitions of terms used in this Order:
 - a. Waste Management Facility (WMF) – The entire parcel of property at which waste discharge operations are conducted. Such a facility may include one (1) or more waste management units.
 - b. Waste Management Unit (WMU) – An area of Land, or a portion of a Waste Management Facility at which waste is or was discharged. The term includes

containment features, ancillary features for precipitation and drainage control and monitoring.

- c. Landfill – A waste management unit at which waste is discharged in or on land for disposal. It does not include surface impoundments, waste piles, land and soil treatment.
- d. Discharger – Any person or entity who discharges waste that could affect the quality of the waters of the state, and includes any person who owns a waste management unit or who is responsible for the operation of the waste management unit (Title 27, California Code of Regulations).

Facility

- 6. The Calexico WMF is located in the North 1/2 of Section 16, Township 17 South, Range 14 East, San Bernardino Base and Meridian (SBB&M). The latitude and longitude of the site are 32.6764° North, 115.54565° West, respectively. The physical address of the site is 133 West Highway 98, Calexico, CA, 92231. The general location of the Calexico WMF is immediately west of the New River, approximately three (3) miles west of the City of Calexico, along State Route 98, as shown on Attachment A, Location Map, incorporated herein and made part of this Board Order.
- 7. The permitted boundaries of the Calexico WMF were revised in 2011 due to a change in the alignment of the New River. The new permitted boundary of the Calexico WMF consists of two Assessor's parcels that total 82.02 acres. The footprint of the landfill is 40.12 acres within the permitted boundary. The Discharger also owns 18.42 acres to the east of the New River that are outside the permitted landfill boundary and outside the regulatory coverage of this Board Order. Site boundaries are shown on Attachment B, Site Layout and Land Use, incorporated herein and made part of this Board Order.
- 8. Land use within one mile of the Calexico WMF includes agricultural, residential, commercial, and light industrial. There are three residences and one business located within 1,000 feet of the Calexico WMF property boundary. One house is located within 100 feet from the northwest Calexico WMF property boundary; a second house is located approximately 500 feet from the northwest Calexico WMF property boundary; and a third house is located northeast of Highway 98 within 1,000 feet of the Calexico WMF property boundary. An auto dismantling business consisting of three mobile office trailers and a storage warehouse is also located just northeast of Highway 98. A satellite image of the surrounding land area is shown on Attachment B.
- 9. The Calexico International Airport is located within 10,000 feet to the east of the Calexico WMF. The Code of Federal Regulations, Title 40, Part 258, Section 258.10 ("Airport Safety") requires, in relevant part, owners/operators of landfills "that are located within 10,000 feet (3,048 meters) of any airport runway end used by turbojet aircraft ... must demonstrate that the units are designed and operated so that the ... unit does not pose a bird hazard to aircraft." (40 CFR 258.10(a).) Current disposal operations at the Calexico WMF are designed to reduce or eliminate the attraction of birds and other vectors. No bird hazards have been reported by airport management or inspections by the Local Enforcement Agency.

10. The Calexico WMF is unlined and has no leachate collection and removal system. Only non-hazardous Class III wastes in the following waste types are accepted at the Calexico WMF:
 - a. Residential
 - b. Agricultural
 - c. Commercial
 - d. Construction/Demolition
 - e. Dead Animals (special handling required)
 - f. Triple-rinsed, punctured pesticide containers (special handling required)
 11. The Calexico WMF accepts dead animals, with the exception of livestock carcasses, in accordance with the following special handling procedures:
 - a. Signs are posted at the entrance to the site indicating that dead animals are accepted during regular operating hours and that site personnel should be notified upon entering.
 - b. The customer are directed to an acceptable disposal area for unloading of the carcass.
 - c. The operator immediately places a minimum one-foot-thick layer of cover material over the carcass.
 12. Triple-rinsed pesticide containers are accepted at the Calexico WMF in accordance with special handling procedures. The Discharger has constructed and maintains a separate cell for the disposal of empty, triple-rinsed, and punctured pesticide containers.
 13. The Calexico WMF also accepts tires, but the tires are not disposed of in the landfill. The Calexico WMF accepts and stores no more than 500 tires for eventual offsite transport for recycling.
 14. The Discharger has a load-checking program for identifying and removing hazardous and prohibited wastes from the municipal waste stream coming to the WMF. The specific components of the load-checking program are as follows:
 - a. Customer notification by signs, notices and verbal inquiries
 - b. Surveillance through visual inspection of waste loads
 - c. Questioning of customers by entrance station personnel
 - d. Visual inspection of working face by Landfill staff
- Any hazardous materials found at the WMF are removed from the waste load and managed pursuant to Title 22, California Code of Regulations.
15. The area fill method is used for waste disposal at the Calexico WMF. Waste is compacted and covered daily.
 16. The WMF is designed and operated to receive a maximum of 150 tons-per-day (tpd) on a sustained basis. In the years 2008, 2009, and 2010 the WMF was operated an average of 104 days per year and accepted an average of 12,399 tons per year. Therefore, the average daily waste inflow for 2008-2010 was approximately 23 tons per day.

17. The Calexico WMF has a total potential waste capacity of approximately of 1.3 million tons, with an approximate total volume of 3.25 million cubic yards. As of May 1, 2011, the remaining refuse capacity is estimated to be approximately 1,808,802 cubic yards with a service life of approximately 66 years, reaching capacity in January 2077.
18. A landfill gas (LFG) monitoring system was installed at the Calexico WMF in May 2011. The system consists of 10 perimeter LFG monitoring points (P1-P10) installed in accordance with CCR Title 27 Sections 20917 through 20939 and are shown on Attachment C, Facility Map, incorporated herein and made a part of this Board Order. A *Landfill Gas Probe Plan*, dated April 2009, and a *Construction and Certification Report Landfill Gas Monitoring Well Installations*, Calexico Solid Waste Site, dated May 11, 2011 may be found in Appendix E of the June 2011 JTD.
19. Currently, the proposed post-closure end use for the Calexico WMF will be non-irrigated open space. The land outside the area of the closed Waste Management Unit may be utilized for agricultural uses.

Site Specific Regulatory Background

20. The Calexico WMF began receiving waste in 1971 and first came under Colorado River Basin Water Board regulation with Resolution 70-038 on December 10, 1970. Resolution No. 70-038 was replaced when the WMF became subject to Waste Discharge Requirements under Board Order 80-080 on November 12, 1980. The following table lists applicable site specific Board Resolution and Waste Discharge Requirements Order numbers since the site opened. Upon adoption, updated Board Orders rescind the previously active Board Order.

<u>Board Order</u>	<u>Date Adopted</u>
70-038	December 10, 1970
80-080	November 12, 1980
88-072	June 30, 1988
91-027	May 15, 1991
R7-2002-0104	June 26, 2002

21. The Discharger submitted a Final Solid Waste Assessment Test (SWAT) Report, dated May 10, 1991. As part of the SWAT investigation, four (4) upgradient monitoring wells and three (3) downgradient monitoring wells were installed in 1989. The wells are designated C-WW-1 through C-WW-7. Monitoring well C-WW-1 is located across the New River at a considerable distance from the active Landfill, and is not considered to be representative of background water quality at the site. Wells C-WW-1, C-WW-3, and C-WW-6 are used as piezometers for measuring groundwater elevation only. Therefore, four (4) ground water monitoring wells, C-WW-2, C-WW-4, C-WW-5 and C-WW-7 are currently monitored as part of the current Detection Monitoring Program, as described in Part II.B.4. of Monitoring and Reporting Program R7-2016-0014. The monitoring wells are shown on Attachment C, Facility Map.
22. On September 15, 1993, the Colorado River Basin Water Board adopted Board Order No. 93-071, which amended all municipal solid waste landfill Board Orders to comply with current federal regulations.

23. In October 1993, Colorado River Basin Water Board staff received split ground water samples from all monitoring wells at the Calexico WMF, except well C-WW-7. Samples could not be collected from monitoring well C-WW-7 due to the well having been covered with soil. The Discharger was requested to submit a workplan for proper abandonment of monitoring well C-WW-7 by letters dated October 28, 1994, and February 9, 1995. On March 6, 1995, the Discharger informed the Colorado River Basin Water Board that monitoring well C-WW-7 would be repaired.
24. On May 12, 1995, the Colorado River Basin Water Board Executive Officer required the Discharger submit a workplan for the repair of well C-WW-7, pursuant to Section 13267 of the California Water Code.
25. On June 8, 1995, a Notice of Violation was issued to the Discharger for non-submittal of the required workplan for the repair of well C-WW-7.
26. On February 9, 1996, the Colorado River Basin Water Board Executive Officer issued Cleanup and Abatement Order (CAO) No. 96-020 against the County of Imperial for potential soil and ground water pollution at the WMF and for failure to submit the required technical report, pursuant to Section 13267 of the California Water Code for repair of monitoring well C-WW-7.
27. On March 29, 1996, the Colorado River Basin Water Board Executive Officer issued CAO 96-027 against the Discharger, revising and rescinding CAO 96-020. CAO 96-027 required (1) submittal of a workplan or report that proposed locating, abandoning, repairing, or replacing monitoring well C-WW-7; (2) submittal of a workplan that proposed a plan to delineate and remediate or properly dispose of the potential soil contamination from the former septage and geothermal ponds; and (3) a progress report on the completion of the actions in the approved workplans.
28. The well C-WW-7 workplan was subsequently approved, well C-WW-7 was located and repaired on November 6, 1996, and CAO 96-027 was rescinded on December 18, 1996.
29. A report titled "Sample Collections and Analysis Former Septage Impoundments, Brawley and Calexico Landfills, Imperial County", dated April, 1995, described the results of analysis of sediment samples from the inactive septage ponds as containing a concentration of total petroleum hydrocarbon of 3,600 mg/kg, and a hazardous concentration of lead of 1,600 mg/kg.
30. A retest of soil samples of the former septage ponds conducted on September 6, 1996, for lead showed concentrations varied from 35 mg/kg to 72 mg/kg, well below regulatory levels of concern for inorganic lead. On April 23, 1997, the septage pond soils were retested for organic lead. Organic lead was not detected in any of the soil samples. The septage ponds remediation workplan was approved on May 29, 1997, and the septage ponds were subsequently capped with twelve inches of clay. Septage waste is no longer accepted at the Calexico WMF.
31. Geothermal wastes were previously accepted in restricted areas of the Calexico WMF. The geothermal wastes were eventually incorporated into an active WMU and covered with non-hazardous waste, and are now incorporated into the existing landfill footprint.

Geothermal wastes contain Naturally Occurring Radioactive Material (NORM), and for the purpose of this Board Order is defined as material containing detectable amounts of Radium, Tritium, and Gross Alpha and Gross Beta particles. Geothermal wastes are no longer accepted at the Calexico WMF.

32. On October 9, 2002, the Colorado River Basin Water Board Executive Officer issued Cleanup and Abatement Order R7-2009-0206, *A Moratorium on the Disposal of Decommissioned Materials to Class III and Unclassified Waste Management Units*, to all Class III WMFs in the Colorado River Basin Region, including Calexico WMF. Finding 8 of CAO R7-2002-206 states: “Decommissioned materials are radioactive materials in excess of local background levels that have been released for unrestricted use as part of a decommissioning action by the appropriate state or federal agency.” In the absence of further action, decommissioned materials would be allowed to be disposed of at Class III and unclassified WMFs. CAO R7-2002-0206 is active and prohibits the Calexico WMF from accepting decommissioned waste for disposal.
33. The monitoring and reporting requirements in Monitoring and Reporting Program R7-2016-0014 are necessary to determine compliance with these WDRs. The State Water Board’s electronic database, GeoTracker Information Systems, facilitates the submittal and review of monitoring and reporting documents.

Groundwater

34. Groundwater at the Calexico WMF occurs at average depths ranging from 8 to 28 feet below ground surface (bgs) and generally flows to the northeast towards the New River. The groundwater flow velocity has been calculated at a range of 0.07 ft/day to 0.03 ft/day beneath the WMF. The groundwater occurs primarily within the sand and silty sand layers of the Lake Cahuilla Formation.
35. The following table shows groundwater data and comments on Discharger assertions from time series plots.

Constituent	Units	C-WW-4 Backgrou nd	C-WW-5 Backgro und	C-WW-2 Complian ce	C-WW-7 Complian ce
Elevation above msl ¹	feet	955.93	952.87	949.72	949.03
Chloride	mg/l ²	964	5274	2407	4668
Total Hardness	mg/l	632	3641	1285	1840
Nitrate as N	mg/l	0.49	0.36	0.98	0.40
pH		7.55	6.82	7.3	7.14
Specific Conductance	mm/cm ³	6284	17,097	9060	13,780
Sulfate	mg/l	1021	1992	1383	1026
Total Dissolved Solids	mg/l	3590	12,570	6490	9474
Sodium	mg/l	1261	2816	1653	2443

¹ – mean sea level
² – milligrams per liter
³ – millimhos per centimeter

Geologic Conditions

36. The Calexico WMF is located in the Imperial Valley. The valley slopes gently to the northeast on a very flat plain. General land elevation in the vicinity of the Calexico WMF is between 20 and 45 feet below mean sea level.
37. During Quaternary times, from at least 13,000 years ago to as recently as several hundred years ago, the central parts of Imperial Valley, including the site, periodically lay beneath ephemeral lakes, such as ancient Lake Cahuilla. Lake Cahuilla resulted from periodic overflow and diversion of the Colorado River into the Salton Basin. Sediments from these ephemeral lakes consist primarily of silt and clay in the central portion of the basin. Below the alluvial cover of Imperial Valley lies an unexposed succession of Tertiary and Quaternary sedimentary rocks thought to be at least 20,000 feet thick.
38. The dominant geomorphic feature in the region is the Salton Trough, which occupies a broad lowland in the southern part of the Salton Trough geomorphic province. The Salton Trough is a structural, as well as a topographic, depression resulting from tectonic stresses associated with the San Andreas Fault. The Salton Trough is bounded by the San Andreas Fault zone on the north and east sides; the discontinuous San Jacinto Fault zone on the west; and the Elsinore Fault zone further west and southwest.
39. Active fault zones occur in the Imperial Valley. The principal fault zone is the San Andreas system, which runs parallel to the northeast margin of the Salton Trough. The Clark and Coyote Creek branches of the San Jacinto fault zone transect the southwest flank of the Salton Trough. The Brawley fault zone, including the seismic zone that marks its northward extension, and the Imperial, Superstition Hills and the Superstition Mountain faults are situated on or nearest the axis of the Trough. With the exception of the Brawley fault zone, all the above named faults display the surficial features characteristic of the San Andreas system through California: linearity, northwest-southwest trend, physiographic evidence of recent activity and right-lateral displacement.

Climatology

40. The climate of the region is warm and arid. The average annual rainfall for the area of the Calexico WMF is 3 inches. There is no typical wet or dry season – rain events occur throughout the year. The projected 24-hour, 100-year storm event is expected to yield approximately 3 inches, as determined from historic data gathered by the National Oceanographic and Atmospheric Administration (NOAA).
41. The average temperature in the area is 73 degrees Fahrenheit (°F) with the mean daily high temperature in July being approximately 108°F. The mean pan evaporation rate is 72 to 84 inches per year.
42. The prevailing winds in the area of the Calexico WMF follow two general patterns:
 - a. During late fall until early spring, the winds prevail from the west and northwest. Humidity is lowest under these conditions.

- b. Summer weather patterns are often dominated by an intense, heat-induced low-pressure area that forms over the interior desert, drawing air from the area to the south of the Calexico WMF. Humidity is highest under the summer conditions.

Basin Plan and Other Regulatory Considerations

- 43. The Water Quality Control Plan for the Colorado River Basin Region (Basin Plan), which was adopted on November 17, 1993, and amended on November 13, 2012, designates beneficial uses and establishes water quality objectives for ground and surface waters in the Region, and contains implementation programs and policies to achieve objectives. In addition, State Water Board Resolution 88-63 requires that, with certain exceptions, the Colorado River Basin Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan.
- 44. The Calexico WMF is located in the Imperial Hydrologic Unit. The designated beneficial uses of the ground waters in the Imperial Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
- 45. The New River flows along the northern and eastern boundaries of the WMF. The Calexico WMF is within the New River and Salton Sea surface water drainage.
- 46. The Calexico WMF is within the 100-year floodplain of the New River (Federal Insurance Rate Map 1984); however, the river was re-channeled to its current location and a diversion dike was constructed in 1970 to mitigate inundation and washout due to a 100-year flood event.
- 47. The beneficial uses of waters of the New River are:
 - a. Fresh Water Replenishment of Salton Sea (FRSH)
 - b. Water Contact Recreation (REC I)
 - c. Noncontact Water Recreation (REC II)
 - d. Warm Water Habitat (WARM)
 - e. Wildlife Habitat (WILD)
 - f. Preservation of Rare, Endangered or Threatened Species (RARE)
- 48. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This area is serviced for its drinking water supply by Colorado River Water Rights and the Imperial Irrigation District which is designated the responsibility and authority to protect human health and ensure that drinking water is safe for domestic use.

Storm Water

- 49. Federal regulations for storm water discharges were promulgated by the United States Environmental Protection Agency (USEPA) on November 16, 1990 (40 CFR Parts 122, 123, and 124). The regulations require specific categories of facilities which discharge storm water associated with industrial activity to obtain National Pollutant Discharge

Elimination System (NPDES) permits and to implement Best Conventional Pollutant Technology (BCT) to reduce or eliminate industrial storm water pollution. The Calexico WMF is subject to the federal requirements for regulation of storm water discharges associated with industrial activities, as listed in 40 CFR 122.26(b)(14).

50. The Discharger is enrolled in the State Water Board's adopted Water Quality Order 2014-0057-DWQ (NPDES No. CAS000001), General Permit for Storm Water Discharges Associated with Industrial Activities (Industrial General Storm Water Permit), which became effective on July 1, 2015. The Industrial General Storm Water Permit requires the implementation of Best Available Technology Economically Achievable (BAT) and BCT to achieve performance standards. The Industrial General Storm Water Permit also requires the development of a Storm Water Pollution Prevention Plan (SWPPP) and monitoring plan, and requires the Discharger to submit a Notice of Intent (NOI) to obtain regulatory coverage.

Composting Operations

51. The State Water Board adopted General Waste Discharge Requirements for Composting Operations, Board Order WQ 2015-0121-DWQ (Composting GO) on August 4, 2015. A WMF, including the Calexico WMF, is subject to the Composting GO if the Calexico WMF has composting operations within its boundaries. If the Discharger chooses to begin onsite composting, it is then required to submit the Notice of Intent (NOI) contained within Board Order WQ 2015-0121-DWQ to obtain regulatory coverage.

Financial Assurance

52. Title 27, sections 21820 and 22206, require that the Discharger provide financial assurance in the amounts of a lump sum cost estimate for landfill closure, and sections 21840 and 22211 require the Discharger provide a lump sum estimate of the landfill postclosure maintenance and monitoring. The Discharger is required to demonstrate financial assurances for landfill closure and post-closure maintenance to CalRecycle pursuant to Sections 22205(a) and 22210(a). This Board Order requires that the Discharger provide and maintain financial assurances to CalRecycle in at least the amount of the corrective action cost estimate, as annually adjusted for inflation.
53. Title 27 requires operators of solid waste landfills to demonstrate financial responsibility to CalRecycle and to maintain appropriate financial assurance mechanisms to cover all expenses related to the following:
 - a. Closure Activities (Section 22205) – in at least the amount of the current closure cost estimate;
 - b. Postclosure Maintenance (Section 22210) – in at least the amount of the current postclosure cost estimate;
 - c. Operating Liability (Section 22215) – to compensate third parties for bodily injury and property damage caused by any accidental occurrences; and
 - d. Corrective Action (Section 22220) – for initiating and completing corrective action for all known or reasonably foreseeable releases from the landfill.
54. The Discharger maintains an enterprise fund in accordance with Title 27 Section 22241, a pledge of revenue agreement in accordance with Title 27 Section 22245, and a

Certificate of Insurance in accordance with Title 27 Section 22251 to meet the financial assurance requirements of Title 27. CalRecycle completed a review of the financial assurance demonstrations for the Calexico WMF on December 21, 2011, and determined that all of the Title 27 requirements were met and adequately funded.

California Environmental Quality Act

55. In compliance with the California Environmental Quality Act (CEQA) (Public Resources Code, Section 21000 et. Seq.), Imperial County Planning Department, as Lead Agency, prepared an Initial Study and Environmental Checklist (IS 10-0042) and approved a Negative Declaration for the issuance of a revised Solid Waste Facilities Permit (SWFP) for the Calexico WMF. A Notice of Determination (NOD) was filed with the State Clearinghouse (SCH Number 2011081086) on January 24, 2012. CEQA compliance was necessary to evaluate the environmental impacts from operational changes to the revised SWFP as listed below:

- a. A boundary line adjustment that resulted in a 9.22 acre expansion of the permitted Calexico WMF boundaries and a 2.12 acre expansion of the permitted waste disposal area with no change in the maximum height of the WMF;
- b. Revised hours of operation to include one half hour before opening and one half hour after closing for site maintenance with no changes in the public hours of waste acceptance;
- c. A revised final grading plan in the amended Preliminary Closure/Post-Closure Maintenance Plan;
- d. The installation of a perimeter landfill gas monitoring system; and
- e. A revised estimated closure date from March 2103 to January 2077.

As a Responsible Agency under CEQA, the Colorado River Basin Water Board staff reviewed the CEQA documents and determined that compliance with these Waste Discharge Requirements will prevent any significant impact to the environment.

Public Participation

56. The Colorado River Basin Water Board has notified the Discharger and all known interested agencies and persons of its intent to update WDRs for this discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments

57. The Colorado River Basin Water Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, pursuant to sections 13263 and 13267 of the California Water Code, that Board Order R7-2002-0104 is rescinded, except for the purpose of enforcement, and that the Imperial County Department of Public Works, its agents, successors, and assigns in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, including the California Code of Regulations, shall comply with the following:

A. Specifications

1. The treatment or disposal of waste at this WMF shall not cause a condition of pollution as defined in Section 13050, Division 7, California Water Code.
2. Waste materials shall be confined to the existing landfill footprint of the Calexico WMF, as defined in Findings 5 and 6 above, and as shown on Attachment B.
3. Waste materials shall not be discharged on any ground surface that is less than five (5) feet above the highest anticipated ground water level.
4. The Discharger shall not cause degradation of any water supply.
5. The construction of a new landfill unit, or lateral expansion of an existing unit is prohibited under these WDRs. Any proposal for construction of a new landfill unit or lateral expansion of the existing unlined unit shall be submitted in the form of a revised RWD/JTD and require approval in the form of revised WDRs issued by the Colorado River Basin Water Board prior to project construction.
6. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at the Calexico WMF.
7. The exterior surfaces of the Calexico WMF landfill, including the intermediate and final Landfill covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
8. The Calexico WMF shall be operated and maintained to prevent inundation, washout, or erosion of wastes or covering material, which could occur as a result of floods having a predicted frequency of once in 100 years.
9. The Discharger shall implement the attached Monitoring and Reporting Program R7-2016-0014, and revisions thereto, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the Calexico WMF, or any unreasonable impairment of beneficial uses associated with (caused by) discharges of waste to the Calexico WMF.
10. The Discharger shall use the constituents listed in Monitoring and Reporting Program No. R7-2002-0104, Part III Summary of Self-Monitoring and Reporting Programs C.1. and revisions thereto, as "Monitoring Parameters". These Monitoring Parameters are subject to the most appropriate statistical or non-statistical test under Monitoring and Reporting Program R7-2016-0014, Part III, and any revised Monitoring and Reporting Program approved by the Colorado River Basin Water Board Executive Officer.
11. The discharge shall not cause the concentration of any Constituent of Concern or Monitoring Parameter to exceed its respective background value in any monitored medium at any Monitoring Point assigned to Detection Monitoring pursuant to Part II.A.7. of attached Monitoring and Reporting Program R7-2016-0014 and revisions thereto.
12. The discharge shall not cause the release of pollutants, or waste constituents in a manner that could cause a condition of contamination, or pollution to occur, as indicated by the most appropriate statistical (or non-statistical) data analysis method and retest

method listed in Part III of attached Monitoring and Reporting Program R7-2016-0014, and revisions thereto.

13. The Discharger shall remove and relocate any wastes that are discharged at this site in violation of these requirements.
14. The Discharger shall maintain a hazardous waste load-checking program at the WMF. The Discharger shall report the results pursuant to Monitoring and Reporting R7-2016-0014 and revisions thereto.
15. Water used for site maintenance shall be limited to the amount necessary for dust control.
16. The Discharger shall comply with the Water Quality Protection Standards (WQPS) for Detection Monitoring established by the Colorado River Basin Water Board in this Board Order pursuant to Section 20390, Title 27. The following are five (5) parts of the WQPS as established by the Colorado River Basin Water Board (the terms of art used in this Board Order regarding monitoring are defined in Part I.B. of attached Monitoring and Reporting Program No. R7-2016-0014, and revisions thereto, which is hereby incorporated by reference):
 - a. Constituents of Concern (Section 20395, Title 27). The Constituents of Concern shall be those constituents listed in Part III Summary of Self-Monitoring and Reporting Programs C.2. of Monitoring and Reporting Program No. R7-2016-0014, and revisions thereto.
 - b. Concentration Limit (Section 20400, Title 27). For each Monitoring Point assigned to a Detection Monitoring Program (as described in Monitoring and Reporting Program Part II.A.7.), the concentration limit for each Constituent of Concern (or Monitoring Parameter) shall be its background value as obtained during that Reporting Period (defined in Monitoring and Reporting Program, Part I.B.10.), as follows:
 - 1) If 10 percent or more of the samples taken during a given Reporting Period from the Background Monitoring Points for a monitored medium exceed their respective Facility-Specific Method Detection Limit (MDL) (defined in Monitoring and Reporting Program Part I.B.5.) for a given constituent, then the Constituent Limit for that medium and constituents shall consist of the mean (or median, as appropriate) and the standard deviation (or other measures of central tendency, as appropriate) of all the background data obtained for that constituent from the medium during that Reporting Period; otherwise
 - 2) The Concentration Limit for that medium and constituent shall be its MDL.
 - c. Monitoring Points and Background Monitoring Points for Detection Monitoring (Section 20415, Title 27) shall be those listed in Part II.A.7. of attached Monitoring and Reporting Program R7-2016-0014, and any revised Monitoring and Reporting Program approved by the Colorado River Basin Water Board Executive Officer. Monitoring Points and Background Monitoring Points are shown on Attachment C.

- d. Points of Compliance (Section 20405, Title 27) shall be those Monitoring Points listed in Part II.A.7.a.ii., as shown on Attachment C, and extending down through the zone of saturation.
- e. Compliance Period (Section 20410, Title 27). The estimated duration of the compliance period for the Calexico WMF is 30 years. Each time the Standard is not met (i.e. a release is discovered), the Calexico WMF begins a Compliance Period on the date the Colorado River Basin Water Board directs the Discharger to begin an Evaluation and Monitoring Program (EMP). If the Discharger's Corrective Action Program (CAP) has not achieved compliance with the standard by the scheduled end of the Compliance Period, the Compliance Period is automatically extended until the Calexico WMF has been in continuous compliance for at least three (3) consecutive years.

B. Financial Assurance Specifications

1. The Discharger shall obtain and maintain the following assurances of financial responsibility with Cal Recycle:
 - a. Landfill closure and post-closure maintenance in at least the amount of an approved cost estimate adjusted annually for inflation;
 - b. Operating liability in at least the amount of one million dollars per occurrence and one million dollars annual aggregate.
 - c. To initiate and complete corrective action for all known or reasonably foreseeable releases from the landfill and as adjusted for inflation
2. Documents supporting the amount and active status of the required financial assurance mechanisms shall be included in the Calexico WMF's JTD. Annual cost estimates and inflation factors shall be submitted to the Colorado River Basin Water Board as an addendum to the JTD.
3. Cost Estimates for corrective action funding requirements that are included in the JTD shall also be submitted to the Colorado River Basin Water Board for approval by the Executive Officer.

C. Prohibitions

1. The lateral expansion of the existing landfill is prohibited under this order.
2. The direct discharge of any waste to any surface waters or surface drainage courses is prohibited.
3. The discharge of waste within 100 feet of surface water is prohibited.
4. The discharge of waste to land not owned and controlled by Discharger is prohibited.
5. The discharge of hazardous or designated waste as defined under Title 27, section 20164, to the landfill is prohibited.

6. The discharge or deposit of biohazardous and/or biochemical waste, radioactive waste and livestock carcasses is prohibited.
7. The discharge of liquid or semi-solid waste to the landfill unit, including, but not limited to septage, chemical toilet waste and geothermal waste is prohibited.
8. The co-disposal of incompatible wastes is prohibited.
9. The discharge/return of leachate and/or landfill gas condensate to the landfill unit is prohibited.
10. The discharge shall neither cause nor contribute to any surface water contamination or pollution, including, but not limited to:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Increases in bottom deposits or aquatic growth;
 - c. An adverse change in temperature, turbidity, or apparent color beyond natural background levels;
 - d. The creation or contribution of visible, floating, suspended or deposited oil or other products of petroleum origin; and
 - e. The introduction or increase in concentration of toxic or other pollutants/contaminants resulting in unreasonable impairment of beneficial uses of waters of the State.

D. Provisions

1. The Discharger shall comply with Monitoring and Reporting Program R7-2016-0014, and future revisions thereto, as specified by the Colorado River Basin Water Board Executive Officer.
2. The Discharger shall comply with applicable storm water requirements.
3. The Discharger shall immediately notify the Colorado River Basin Water Board of any flooding, slope failure or other change in site conditions that could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
4. The Discharger, within 48 hours of a significant earthquake event, shall inform the Colorado River Basin Water Board Executive Officer by telephone of any physical damages to the containment features and ground water monitoring facilities. Within ten (10) working days, the Discharger shall submit to the Colorado River Basin Water Board a detailed post-earthquake report describing any physical damages to the containment features and/or ground water monitoring systems, and a corrective action plan to be implemented at the Calexico WMF.
5. Within 180 days of the adoption of this Board Order, the Discharger shall submit to the Colorado River Basin Water Board, pursuant to Section 20380(b) of Title 27, assurances

of financial responsibility acceptable to the Colorado River Basin Water Board Executive Officer for initiating and completing corrective action for all known or reasonably foreseeable releases from the Calexico WMF.

6. One year prior to the anticipated closure of the Calexico WMF or any Unit (portion) thereof, the Discharger shall submit to the Colorado River Basin Water Board, for review and approval by the Colorado River Basin Water Board Executive Officer, a final closure and post-closure maintenance plan, pursuant to Title 27. The final closure and post-closure maintenance plan shall include seismicity studies.
7. The Discharger shall maintain legible records on the volume and type of each waste discharged at the Calexico WMF. These records shall be available for review by representatives of the Colorado River Basin Water Board at any time during normal business hours. At the beginning of the post-closure maintenance period, copies of these records shall be sent to the Colorado River Basin Water Board.
8. The Discharger shall maintain visible monuments identifying the boundary limits of the entire Calexico WMF.
9. The Discharger shall comply with the existing load-checking program.
10. The Discharger shall comply with all applicable provisions of Title 27 that are not specifically referred to in this Order.
11. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the WMF inoperable.
12. Annually, prior to the first day of November, any necessary erosion control measures shall be implemented, and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion and flooding of the WMF. The report thereon shall be submitted to the Colorado River Basin Water Board by **November 15** of each year.
13. All containment structures and erosion and drainage control systems shall be designed and constructed under direct supervision of a California Registered Civil Engineer, or Certified Engineering Geologist, and shall be certified by the individual as meeting prescriptive standards and performance goals of Title 27.
14. The Discharger shall maintain in good working order, and operate as efficiently as possible, any facility or control system installed by the Discharger to achieve compliance with these waste discharge requirements.
15. All regulated disposal systems shall be readily accessible for sampling and inspection.
16. The Discharger shall allow the Colorado River Basin Water Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;

- b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order;
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
17. The Discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
 18. Prior to any modifications at this facility that would result in material change in the quality or quantity of waste discharged at the Calexico WMF, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board and obtain revised Waste Discharge Requirements prior to any modifications being implemented.
 19. Prior to any change in ownership or management of this operation, the Discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Colorado River Basin Water Board.
 20. The Discharger is the responsible party for the Waste Discharge Requirements and the Monitoring and Reporting Program for the Calexico WMF. The Discharger shall comply with all conditions of the Waste Discharge Requirements. Violations may result in enforcement actions, including Colorado River Basin Water 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 Colorado River Basin Water Board.
 21. The Colorado River Basin Water Board considers the property owner to have a continuing responsibility for correcting any problems that may arise in the future, as a result of this waste discharge.
 22. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
 23. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal right, nor any infringement of federal, state, or local laws or regulations.
 24. The Discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with Chapter 30, Division 3, Title 23 of the California Code of Regulations (CCR), as groundwater raw data uploads electronically over the internet into the State Water Board's GeoTracker <https://geotracker.waterboards.ca.gov/> database. Documents that are normally mailed by the Discharger, such as regulatory documents, narrative technical monitoring program reports, and such reports submissions, materials, data, and correspondence, to

the Colorado River Basin Water Board shall also be uploaded into GeoTracker in the appropriate Microsoft software application, such as word, excel, or an Adobe Portable Document Format (PDF) file. Large documents are to be split into manageable file sizes appropriately labelled and uploaded into GeoTracker. The Calexico WMF is assigned the California Integrated Water Quality System (CIWQS) WDID No. 7A130301021 and GeoTracker Global ID Number -L10006190805.

25. All analyses shall be conducted at a laboratory certified for such analyses by the State Water Board's Laboratory Certification Program. All analyses shall be conducted pursuant to the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency (USEPA).
26. This Board Order is subject to Colorado River Basin Water Board review and updating, as necessary to comply with changing State or Federal laws, regulations, policies, or guidelines, or changes in monitoring or discharge characteristics.

I, Jose L. Angel, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on June 30, 2016.



JOSE L. ANGEL, P.E.
Executive Officer