The California Regional Water Quality Control Board, Central Coast Region (hereafter Water Board) finds that:

**LANDFILL OWNER AND LOCATION**

1. The Jolon Road Closed Class III Landfill (hereafter “landfill”) is located on 57 acres of a 496-acre parcel owned by the Salinas Valley Solid Waste Authority (hereafter “Discharger”) and formerly owned by Waste Management.

2. The landfill access road is located on the west side of Jolon Road, approximately three and one-half miles southwest of King City, two miles from U.S. Highway 101 in Section 30, Township 20 South, Range 8 East, in Monterey County (Figures 1 and 2). The landfill is legally defined by Monterey County Assessor as being located on Parcel Number APN 420-081-016 and 420-081-017.

**PURPOSE OF ORDER**

3. The Discharger submitted a Final Closure and Post-Closure Maintenance Plan (CPCMP), including a Joint Technical Document and Report of Waste Discharge (JTD/ROWD) on May 18, 2005. The CPCMP describes the local geology/hydrogeology, and the schedule and plan for closure and post-closure care. Based on comments from the regulatory community, and the Discharger’s wishes to possibly reopen the landfill in the future, the Discharger submitted a revised CPCMP in December 2006. The revised CPCMP includes a revised schedule and a proposal for an evapotranspirative cover design, which is an engineered alternative to the prescriptive cover design. The proposed cover facilitates the possibility of reopening the landfill at a later date.

4. The Discharger is currently regulated by Waste Discharge Requirements Order No. 01-032 (hereafter “Order 01-032”), as adopted by the Board on May 18, 2001. The primary purpose of proposed Order No. R3-2007-0022 (Hereafter “Order”) is to reflect the landfill’s closed status, change in ownership, and to revise and update requirements for closure and post-closure maintenance and long-term monitoring, pursuant to California Code of Regulations Title 27, Solid Waste (hereafter “Title 27”) effective July 18, 1997, and pursuant to Code of Federal Regulations Title 40, Part 257 and 258 Solid Waste Facility Disposal Criteria, Final Rule, as promulgated on October 9, 1991 (hereafter “40CFR258”). This Order replaces Order No. 01-032, specifies a date for closure construction, specifies a corrective action plan for remediating groundwater impacts at the landfill, and specifically prohibits discharge of waste at the landfill.
CLASSIFICATION AND WASTE TYPE

5. The landfill is classified by the Water Board as a Class III landfill that contains Nonhazardous Solid Waste, pursuant to Title 27 §20200.

6. Historical wastes accepted at the landfill included residential and commercial wastes, tires, construction and demolition wastes, agricultural wastes, small domestic animal carcasses, and septage wastes. Septage waste was placed in a land treatment area at the west end of the landfill up until 1997, when the practice was discontinued and the septage material removed. The waste stream at the landfill consisted of approximately 65 percent residential, 30 percent commercial/industrial, and 5 percent agricultural, with the majority of the waste derived from the King City area.

LANDFILL DESCRIPTION AND HISTORY

7. The landfill is approximately three and one-half miles southwest of King City off of Jolon Road (Figures 1 and 2). The landfill is located in the eastern foothills of the Santa Lucia Mountain Range, on the western margin of Salinas Valley, in Monterey County.

8. The area in the immediate vicinity of the landfill is subleased for dry land farming and cattle grazing. The region surrounding the site is largely undeveloped, with no residences located within one-half mile of the landfill. Land zoning within a one-mile radius of the landfill includes permanent grazing areas to the north and south, rural grazing and low-density residential to the east; and farmland west of the landfill. There are approximately 432,000 cubic yards of in-place waste at the landfill with approximately 568,000 cubic yards of remaining capacity.

9. The average annual precipitation is approximately 11.3 inches, with a maximum recorded precipitation of 26.4 inches in 1983, based on rainfall data collected from the King City weather station, over the period of record between 1927 and 2006. Most precipitation occurs from November to April.

The maximum 24-hour precipitation event was 3.3 inches.

10. The landfill began operation in June, 1977 and operated until last receipt of waste in March 1997 using the cut-and-area fill method. The landfill is divided into four modules (Modules 1, 2, 3, and 4A) covering 17 acres (Figure 3). One and one-third-acre Module 4A consists of a composite geosynthetic liner and leachate collection and removal system (LCRS) that are compliant with CCR Title 27, 40 CFR 257 and 258. Modules 1, 2, and 3 do not have an underlying liner and LCRS. Ancillary facilities at the landfill include a maintenance shop, scale and scale house, above ground fuel tank, leachate storage tank, sediment retention basin, waste transfer station, and spring discharge collection tank.

11. In March 1997, the landfill’s waste disposal operations were suspended with the completion of waste placement in Module 4A. A long-term interim cover was constructed over existing waste with 18-inches of compacted soil, graded to facilitate drainage. Sludge from clean closure of an onsite septic pond (refer to Figure 3) and sludge from the City of Salinas wastewater treatment plant were added to the long-term interim cover, for a total of about six inches of material to improve vegetative growth.

12. The Final Closure and Post Closure Maintenance Plan and Construction Quality Assurance (CQA) plan for the landfill were commented on and approved by Water Board Executive Officer (hereafter “Executive Officer”) in March 2007.

13. The closed landfill will be maintained as non-irrigated, low-maintenance, undeveloped open space.

14. Since March 1997, the landfill site has been used as a refuse transfer station, see location of “Interim Transfer Pad” on Figure 3. The transfer station is approved by Monterey County Environmental Health Department, as the CCR Title 27 Local Enforcement Agency, under Stipulated Order No. 97-01.
15. Monterey County Land Use Zoning Permit, PLN000116, adopted on August 8, 2000, expanded the land use boundary for disposal of municipal solid waste at the landfill from 36 acres to 58 acres. Monterey County Environmental Health Department/Local Enforcement Agency amended the landfill’s Solid Waste Facilities Permit 27-AA-006, in part, to allow the increase in boundary, but only to 57 acres.

16. In a March 15, 2007 memo, the California Integrated Waste Management Board confirmed that the landfill closure fund is fully funded, and that the pledge of revenue agreement meets cost projections for post-closure maintenance.

GEOLOGY/HYDROGEOLOGY

17. Setting – The site is located within a narrow valley in the eastern foothills of the Santa Lucia Mountains, a northwest trending mountain range that forms the western boundary of the Salinas Valley.

18. Topography – The surrounding hills are moderately to steeply sloped, with elevations of over 1,000 feet mean sea level (msl) in the local drainage system. Within the waste footprint of the landfill, elevations range between 570 feet msl at the top deck and 470 feet msl at the toe, with maximum and minimum elevations of approximately 630 and 450 feet msl, respectively, within the landfill site boundary.

19. Stratigraphy – The landfill canyon and immediately adjacent upland areas are underlain by sedimentary bedrock of the Miocene age Monterey Formation. The Paso Robles Formation and Poncho Rico Formation are exposed in the hills north and east of the landfill. The Monterey Formation is overlain by the Pliocene age diatomaceous siltstone of the Pancho Rico Formation in the northeastern part of the landfill property. The Plio-Pleistocene alluvial deposits of Paso Robles Formation locally unconformably overlie (with angular contact) both the Monterey and Poncho Rico Formations to the east of the landfill. Alluvial, colluvial, and local landslide deposits, eroded from the adjacent upland areas, overlie the Monterey Formation in the landfill canyon. The maximum thickness of alluvial/colluvial deposits is approximately 50 feet; however, beneath the waste footprint, most of the alluvium/colluvium was removed to make room for waste and for use as daily cover.

The Monterey Formation in the landfill area consists mainly of diatomaceous siltstone, with minor interbeds of claystone, dolomitic siltstone, and chert. The Monterey Formation is thin to massively bedded with chert and siltstone beds fractured into randomly oriented blocks one to six inches across. Fractures are locally filled with calcium carbonate, gypsum, or fine-grained pyrite. The upper 50 to 230 feet of the Monterey Formation is moderately weathered. The Quaternary age alluvium consists of locally derived loose to medium dense clayey sand to sandy silt.

20. Structure – The Monterey Formation is folded and locally sheared at the Site. The geologic map indicates that several fold axis occur, with bedding planes striking northwest at dips of up to 80 degrees. The younger Paso Robles Formation is relatively undeformed.

21. Faulting – The Discharger’s consultant, Geomatrix, prepared a March 2002 report “Revised Site Characterization for Landfill Expansion,” developed as part of the Discharger’s effort to locate a regional landfill. The March 2002 report identified faults that have displaced Tertiary bedrock within the limits of the landfill, but none of these faults have been active during the Holocene. This was confirmed later by an independent third-party review. Due to the proximity of the San Andres Fault (20 miles east of the landfill), the potential for seismic activity is high, with magnitude 7.5 to 8.5 earthquakes possible. The maximum probable earthquake in the Reliz-Rinconada Fault (1 mile southwest and 2-1/2 miles northeast of the landfill), is estimated to produce peak ground motion of approximately 0.29 times gravitational acceleration (g) for a probability of exceedance of 10 percent in 50 years. Using site specific soil conditions, the peak
ground acceleration is estimated at 0.32 g at the landfill. In a letter dated June 3, 2002, Geomatrix later revised the peak ground acceleration estimate to 0.34 g to account for a postulated “blind thrust” fault beneath the Santa Lucia range.

22. **Hydrogeology** – Groundwater occurs as deep as approximately 70 feet below ground surface in the canyon uplands and surfaces directly east of the landfill, where it discharges at the spring and the sediment retention basin. Groundwater occurs in two units beneath the landfill: the bedrock of the Monterey Formation and the overlying alluvial/colluvial deposits. Groundwater in the bedrock moves principally through fractures, because the primary permeability of the siltstones and shales is very low. The bedrock at the landfill is sufficiently fractured such that it transmits groundwater similar to a porous medium.

Regionally, the groundwater in the bedrock has a variable flow direction, but in the landfill canyon, hydraulic heads suggest groundwater parallels topographical gradient. Groundwater occurs sporadically in the alluvial deposits because of the variable elevation of the top of bedrock and thickness of the alluvium. The alluvium is absent in some areas beneath and around the landfill because of excavation activities. The alluvium has a saturated thickness of approximately 14 feet at the toe of the landfill near monitoring well JR-J2. As groundwater moves down canyon, groundwater intersects the waste at one or more locations.

Based on aquifer tests, estimates of hydraulic conductivity for the alluvium and bedrock are similar. Groundwater velocities are likely highly variable, but average approximately 10 feet per year at the landfill, based on a measured potentiometric gradient of 0.04, mean calculated hydraulic conductivity of $1.5 \times 10^{-5}$ centimeter per second, and effective porosity of 0.06.

23. The western boundary of the Salinas valley groundwater basin occurs approximately 1 mile northeast of the landfill and is comprised of Paso Robles Formation, alluvium, and river deposits.

**SURFACE WATER AND GROUNDWATER**

24. Native groundwater quality beneath the site in the Monterey Formation is poor, with a concentration of total dissolved solids of approximately 4,700 mg/L, sulfate of 2,400 mg/L, and chloride of 430 mg/L according to samples collected from background monitoring well JR-J1. In addition, cadmium, selenium, molybdenum, and arsenic are detected in groundwater at the landfill collected from both background and downgradient wells.

25. The Salinas River is located about 2 miles northeast of the landfill. The nearest primary drainage is Pine Canyon, which is located over a drainage divide about one mile northwest of the landfill.

26. The landfill is located in a moderately to steeply-sided canyon with a watershed of about 132 acres. The limit of waste (Figure 3) comprises an area of about 17 acres, within the canyon’s 132-acre watershed. Ephemeral streams located in the canyon flow during and immediately after significant storm events.

27. Surface water runoff from approximately 30 acres of the 57-acre landfill site is directed into a series of ditches that drain into a sedimentation basin located at the toe of Module 1 (Figure 3). Surface water samples are collected during the first and following discharge from the sediment basin.

28. Surface water runoff from the remaining 75 acres within the canyon watershed is captured in drainage ditches that divert flow around the landfill (Figure 4).

29. A 100-year-floodplain map shows the landfill is not within a 100-year floodplain. The landfill is not located within any designated wetland.

30. On September 9, 2006, the Discharger’s Notice of Intent seeking coverage under the SWRCB’s industrial activities stormwater general permit was processed by the SWRCB.
31. There are eleven groundwater monitoring wells and one water supply well located at the landfill (Figure 3). Two private wells are located near the landfill. The Solari Well lies about 500 feet northeast of the northeast corner of the site boundary. It provides water for livestock watering. The second well is located in the northeast corner of the landfill site and is used primarily for onsite water supply. There are two wells located 3,500 feet east of the landfill that are used by Monterey County Water Resources for regional water quality monitoring. Several domestic wells are located within a one-mile radius of the landfill, but are typically greater than 2,000 feet away from the landfill.

32. In January 2000, volatile organic compounds (VOCs) were detected in monitoring well JR-J2 and surface water in the sediment basin, located directly downgradient from the toe of the landfill. This initiated an evaluation monitoring program (EMP) to determine the nature and extent of the release.

33. Ongoing EMP investigations have resulted in several reports detailing the hydrogeology and nature of the release at the landfill. The Discharger prepared an October 2000 EMP report concluding that the release is localized around the sediment basin area. Subsequently, the Discharger submitted an engineering feasibility study in June 2001 that proposed natural attenuation as the remedial alternative. In letters dated November 2002 and February 2003, the Water Board requested additional information on the nature and extent of the release and further characterization of the alluvium, likely the most significant hydrogeologic unit for transporting groundwater. In May 2005, the Discharger responded with their Additional Evaluation Monitoring Program Report, detailing the additional investigative work. In a report comment letter dated July 7, 2006, the Water Board requested additional data, including information on the role of the bedrock in transporting groundwater at the landfill site. The Discharger provided additional supporting information in their comment response letter. The Water Board approved the EMP in a letter dated October 10, 2006, but stipulated that additional data gaps needed to be addressed and included in the revised feasibility study.

34. The EMP concludes that the VOC impacts result from groundwater coming in contact with waste at the base of the landfill, or from the infiltration of leachate, rather than from dissolution of landfill gas. The impact is isolated in the area of the sediment basin and the spring. Impacted groundwater occurs within both the alluvial and bedrock units to a depth of approximately 25 feet below ground surface. Detected VOC constituents include perchloroethylene (PCE), and associated breakdown byproducts trichloroethylene (TCE), and cis-1,2-dichlorethene at concentrations ranging from trace to above practical quantitation limits. VOC concentration trends appear stable in well JR-J2 but are increasing in the spring discharge.

35. Total dissolved solid concentrations (TDS) in JR-J3 and the spring discharge are elevated above TDS concentrations in background well JR-J1, which indicates the possibility of an inorganic release. However, the EMP concludes that the elevated TDS is caused by local variations in the dissolution of naturally occurring minerals within the marine sediments of the Monterey Formation. This is supported by signatures of dissolved general chemistry from groundwater and leachate collected at the site.

36. The Discharger submitted the revised engineering feasibility study and Report of Waste Discharge (EFS/ROWD) in March 2007. The engineering feasibility study proposes a corrective action alternative, using phytoremediation and natural attenuation to address the VOC impacts and lower the groundwater table below the waste footprint at the toe of the landfill near JR-J2 and the spring discharge. The EFS/ROWD also quantified the groundwater velocity in the bedrock (10 feet per year). The EFS/ROWD was approved by the Executive Officer in a letter dated March 16, 2007.

37. A perennial spring is located south and adjacent to JR-J2. The spring emanates from a shear zone in the Monterey Formation. In 2001, discharge from the spring was intercepted and diverted around
the sediment basin; low-level VOCs have been detected in the discharge since the winter of 2001/2002. The spring discharge is collected in a tank and used as dust control.

38. Four landfill soil-gas monitoring probes are located around the perimeter of the landfill (Figure 3). Because of the landfill's small size, and lack of consistent elevated detections of landfill gas (methane), a landfill gas control system has not been installed. The soil-gas probes are not used as sentinel monitoring devices for potential releases to groundwater because the groundwater is very shallow at the landfill.

BASIN PLAN

39. The Water Quality Control Plan, Central Coast Basin (Basin Plan), was adopted by the Water Board on September 8, 1994, and approved by the State Water Resources Control Board on November 17, 1994. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State Waters. This Order implements the water quality objectives stated in that Plan.

40. Currently, groundwater use in the vicinity of the landfill is agricultural and domestic water supply. The Basin Plan identifies the following present and anticipated beneficial uses of groundwater in the vicinity of the landfill:
   a. Agricultural water supply
   b. Municipal and domestic water supply
   c. Industrial use

CALIFORNIA ENVIRONMENTAL QUALITY ACT

41. This Order contains prohibitions, discharge specifications, water quality protection standards, and provisions intended to protect water quality. This Order is for an existing facility and therefore is exempt from provisions of the California Environmental Quality Act (Public Resources Code, §21000, and et seq.) in accordance with Title 14, Chapter 3, §15301.

GENERAL FINDINGS

42. This Order contains restrictions on individual pollutants. Limitations in this Order have been derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to state law. The requirements of the Order take into consideration past, present, and probable future beneficial uses of the receiving waters, the environmental characteristics, including water quality, of the bedrock and alluvium hydrogeologic units, coordinated control of all factors which affect water quality in the area, and the need to develop and use recycled water. The Discharger did not submit evidence regarding costs of compliance. Other dischargers throughout the region have achieved compliance with similar limits. No evidence in the record supports failing to protect beneficial uses due to cost considerations.

43. The goal of closure, including but not limited to the installation of a final cover, is to minimize infiltration of water into the waste, thereby minimizing production of leachate and gas. After closure, the final cover constitutes the landfill’s principal waste containment feature.

44. The goal of post-closure maintenance is to assure the landfill continues to comply with Title 27 and 40CFR258 closure requirements and the goal described in the prior Finding, until such time as the waste in the landfill no longer constitutes a potential threat to water quality.

45. This landfill is included in Monterey County's Solid Waste Management Plan and is regulated by the California Integrated Waste Management Board.

46. On February 20, 2007, the Board notified the Discharger and interested agencies and persons of its intent to issue Waste Discharge Requirements for the closed landfill, and has provided the opportunity to review a copy of the proposed Order and submit written views and comments.
47. After considering all comments pertaining to this discharge during a public hearing on May 11, 2007, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED pursuant to authority in §13263 of the California Water Code, the Discharger, its agents, successors, and assigns in maintaining the closed Jolon Road Closed Class III Landfill, shall comply with the following:

A. COMPLIANCE WITH OTHER REGULATIONS AND ORDERS

1. Discharge of waste, closure, post-closure maintenance and long-term monitoring shall comply with all applicable requirements contained in the California Code of Regulations Title 27, Division 2 Solid Waste (Title 27) and 40 CFR Parts 257 and 258 Solid Waste Facility Disposal Criteria (40CFR258). If any applicable regulation requirements overlap or conflict in any manner, the most water quality protective requirement shall govern in all cases, unless specifically stated otherwise in this Order, or as directed by the Executive Officer.

2. The Discharger shall monitor potential releases from the landfill to surface water runoff by complying with all requirements contained in the “State Water Resources Control Board Water Quality Order No. 97-03-DWQ National Pollutant Discharge Elimination System General Permit No. CAS000001 Waste Discharge Requirements for Discharge of Storm Water Associated with Industrial Activities Excluding Construction Activities” (General Permit).

B. PROHIBITIONS

1. Discharge of wastes at the landfill is prohibited, except as provided in an Executive Officer approved closure and post-closure maintenance plan for the landfill.

2. Discharge of waste or leachate to ponded water or waters of the State, including groundwater, is prohibited.

SPECIFICATIONS

1. The Discharger shall ensure the landfill remains closed and maintain the landfill in conformance with the Water Board Executive Officer approved closure plan, except where the plan conflicts with this Order. In the event of conflict, this Order shall govern in cases where it is more protective of water quality. Any changes to the closure plan that may affect compliance with this Order must be approved by the Executive Officer.

2. Closure and containment systems shall be as follows: All landfill waste disposal areas at final elevations shall receive final cover pursuant to CCR Title 27, Section 21090, which meets either a. or b. below:
   a. Minimum two-foot-thick foundation layer placed over waste, compacted to maximum density obtainable at optimum moisture conditions [CCR Title 27, Section 21090 (a)(1)].
   b. For units that have not been equipped with a Subtitle D composite liner system, a low hydraulic conductivity layer, consisting of one-foot thick compacted clay with a hydraulic conductivity of $1 \times 10^{-6}$ centimeter per second or less.
   c. For units that have been equipped with a Subtitle D composite liner system, a low hydraulic conductivity layer equal to or less than the hydraulic conductivity of the bottom liner system.
   d. At least one foot of soil capable of supporting vegetation, resisting erosion, and protecting the underlying low hydraulic conductivity layer.

b. An engineered alternative design, approved by the Executive Officer, will be considered for final cover areas. Engineered alternative designs must satisfy the performance criteria in 40 CFR Parts 257 and 258, and satisfy the criteria for an engineered alternative to the above prescriptive design, as provided by CCR Title 27. Performance of the alternative composite cover’s components, in combination, shall equal or exceed the waste containment capability of the prescriptive design outlined in (a) above.
3. All landfill containment structures and drainage facilities shall be designed, constructed, and maintained to limit, to the greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, washout, overtopping, and damage due to natural disasters (e.g., 100 years 24-hour precipitation, the maximum probable earthquake, and severe wind storms).

4. Condensate or leachate handling systems shall:
   a. Be returned to only a waste management unit equipped with a containment system that meets or exceeds the performance standard of CCR Title 27, CFR, Part 258.40(a)(2), or in this order, whichever is more protective of water quality;
   b. Be measured by volume and recorded on a monthly basis. These monthly volumes shall be included as a part of monitoring submittals as required in the most recent Monitoring and Reporting Program;
   c. Have a second containment system sized to hold 100% of the primary containment system holding capacity;
   d. Be discharged in compliance with this Order.
   e. Leachate shall not be discharged within 48 hours of any forecasted rain event.
   f. If leachate is found to be detrimental to the cover vegetation, another appropriate means of disposal shall be used.

5. All landfill surfaces and working faces shall be graded and operated to minimize rainfall infiltration into wastes, to prevent ponding of water, and to resist erosion. Positive drainage to divert rainfall runoff from areas containing waste shall be provided.

6. Storage facilities associated with precipitation and drainage control systems shall be emptied immediately following each storm, or otherwise managed, to maintain the design capacity of the system.

7. As part of closure construction, drainage from the waste transfer pad must be routed and stored separately from leachate generated at the landfill.

8. Throughout the post-closure maintenance period, the Discharger shall:
   a. Maintain the structural integrity and effectiveness of all containment structures, and maintain the final cover as necessary to correct the effects of settlement or other adverse factors.
   b. Maintain monitoring systems as specified in this Order.
   c. Prevent erosion and related damage of the final cover due to drainage.
   d. Protect and maintain surveyed monuments.

9. Discharged waste shall not cause a condition of pollution or contamination to occur, through a measurably significant release of pollutants and/or contaminants, or waste constituents, as indicated by the most appropriate statistical [or non-statistical] data analysis method and retest method listed in MRP No. R3-2007-0022.

10. Discharged waste shall not create nuisance, as defined by California Water Code §13050(m).

11. The Discharger shall prevent formation of a habitat for carriers of pathogenic microorganisms.

12. Wastes discharged in violation of this Order, shall be removed and relocated.

13. The Post-Closure Maintenance Period and Compliance Period, pursuant to Title 27 §20380(d)(1), §20410, §20950 and 40 CFR 258.61 (a) is a minimum of thirty years or until waste discharged at the landfill no longer poses a threat to water quality. The Post-Closure Maintenance Period start date shall correspond with the later of:
   • The final closure construction completion date; or,
   • The date the Executive Officer approves all documents, pursuant to Title 27 [i.e., §20323 – Construction Quality Assurance Plan, §20324(a) – Construction Quality Assurance Performance Standards, §20324(d)(1)(C) – Final Documentation
D. WATER QUALITY PROTECTION STANDARDS

1. The discharge of waste shall not cause a statistically significant difference in water quality over background concentrations for proposed Concentration Limits for each Constituent of Concern or Monitoring Parameter (per MRP No. R3-2007-0022) at the Point of Compliance. The Concentration Limits shall be maintained for as long as the waste poses a threat to water quality. Discharge of waste shall not adversely impact the quality of State waters.

2. Point of Compliance is the lesser of: the edge of the landfill’s permitted area, as identified in this Order; or, no more than 150 meters (492 feet) from the waste management unit boundary, and shall be located on land owned by the Discharger. The Point of compliance extends vertically down through the uppermost aquifer.

3. Discharged waste shall not cause concentrations of chemicals and radionuclides in groundwater down-gradient of the landfill to exceed the State Department of Health Services latest recommended Drinking Water Action Levels or Maximum Contaminant Levels of the California Code of Regulations Title 22, Division 4, Chapter 15, Article 5.5.

4. Discharged waste shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Water Board or the State Water Resources Control Board.

5. Discharged waste shall not adversely impact the quality of underlying groundwater.

6. Discharged waste shall neither cause nor contribute to any surface water impacts, including, but not limited to:
   a. Floating, suspended, or macroscopic particulate matter or foam.
   b. Increases in bottom deposits or aquatic growth.


E. PROVISIONS

1. Order No. 01-032, “Waste Discharge Requirements for Jolon Road Class III Landfill”, adopted by this Water Board on May 18, 2001, is hereby rescinded.

2. The Discharger is responsible for waste containment, monitoring and correcting any problems resulting from the discharge of waste for as long as the waste poses a threat to water quality.

3. The Discharger shall comply with “Monitoring and Reporting Program No. R3-2007-0022,” as specified by the Executive Officer.

4. By October 1 of each year, all necessary runoff diversion and erosion prevention measures shall be implemented. All necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed.

5. By October 1, of each year, vegetation shall be planted (as necessary) and maintained over all slopes within the entire landfill area to prevent erosion and create transpiration conditions per the cover design specifications. Vegetation shall be selected to require a minimum of irrigation and maintenance and shall have a rooting depth that sufficiently removes moisture per the
cover design specifications. Upon Executive Officer approval, non-hazardous sludge may be utilized as a soil amendment to promote vegetation. Soil amendments and fertilizers (including wastewater sludge) used to establish vegetation shall not exceed the vegetation’s agronomic rates (i.e., annual nutrient needs), unless approved by the Executive Officer.

6. By December 31, 2007, the Discharger shall complete closure construction at the landfill per an Executive Officer approved closure plan [Specification No. 2].

7. Should additional data become available through monitoring or investigation that indicates compliance with this Order is not adequately protective of water quality, the Water Board will review and revise this Order as appropriate.

8. If the Discharger or the Water Board determines, pursuant to Title 27, §20420, that there is evidence of a release from any portion of the landfill, the Discharger shall immediately implement the procedures outlined in Title 27 Sections 20380, 20385, 20430 and MRP No. R3-2007-0022.

9. The Water Board shall be allowed, at any time and without prior notification:
   a. Entry upon the landfill area or where records are kept under the conditions of this Order and MRP No. R3-2007-0022.
   b. Access to copy any records that must be kept under the conditions of this Order and MRP No. R3-2007-0022.
   c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order and MRP No. R3-2007-0022.
   d. To photograph, sample, and monitor for the purpose of showing compliance with this Order.

10. The Discharger shall take all reasonable steps to minimize or correct adverse impacts on the environment resulting from non-compliance with this Order.

REPORTING

11. Any person signing a report makes the following certification, whether its expressed or implied: "I certify under penalty of perjury I have personally examined and am familiar with the information submitted in this document and all attachments and, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

12. Except for data determined to be confidential under §13267 (b)(2) of the California Water Code, all reports prepared in accordance with this Order shall be available for public inspection at the Water Board office.

13. Reports shall be submitted in advance of any planned changes in the permitted landfill or any activity that could potentially result in noncompliance. Advance submittal should reflect relative need for Water Board review and concurrence.

14. By October 1 of each year, the Discharger shall submit a Wet Weather Preparedness Report (WWPR). The WWPR shall describe compliance with Provisions E.4 and E.5, above. The report shall also detail preparedness actions taken to ensure discharges to surface or groundwater do not occur during the impending rainy season, and ensure compliance with all other relevant Title 27 and 40CFR258 criteria.

15. The Discharger shall notify the Water Board with a written request of any proposed change in ownership or responsibility for construction or operation of the landfill in accordance with Title 27, §21710 (c)(1). The written request shall be given at least 90-days prior to the effective date of change in ownership or responsibility and shall:
   a. Be accompanied by an amended Report of Waste Discharge and any technical documents that are needed to demonstrate continued compliance with these Waste Discharge Requirements.
b. Contain the requesting entity's full legal name, the state of incorporation if a corporation, the name and address and telephone number of the persons responsible for contact with the Water Board.

c. Contain a statement indicating that the new owner or operator assumes full responsibility for compliance with this Order.

16. Request for change in ownership or responsibility may be approved or disapproved in writing by the Executive Officer. In the event of any change in ownership of this landfill, the Discharger shall notify the succeeding owner or operator, in writing, of the existence of this Order. A copy of that notification shall be sent to the Executive Officer.

17. The Discharger shall furnish, within a reasonable time, any information the Executive Officer may request to determine compliance with this Order or to determine whether cause exists for modifying or terminating this Order.

18. The Discharger or persons employed by the Discharger shall comply with all notice and reporting requirements of the State Department of Water Resources and with concurrence of the Executive Officer regarding the construction, alteration, destruction, or abandonment of all monitoring wells used for compliance with this Order or with the MRP No. R3-2007-0022, as required by §13750.5 through §13755 and §13267 of the California Water Code.

19. Should the Discharger discover that it failed to submit any relevant facts or that it submitted incorrect information, it shall promptly submit the missing or corrected information.

20. All reports shall be signed as follows:
   a. By either a principal executive officer or ranking elected official.
   b. Their “duly authorized representative.”
   c. A California Registered Civil Engineer or Certified Engineering Geologist must sign engineering reports.

21. The Discharger shall notify the Executive Officer, within 24 hours by telephone and within 14 days in writing, of:
   a. Any noncompliance potentially or actually endangering health or the environment.
   b. Any flooding, equipment failure, slope failure, or other change in landfill conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
   c. Leachate seep occurring on or in proximity to the landfill
   d. Violation of a Discharge Prohibition.

22. Reports of compliance or noncompliance with, or any progress reports on, final requirements contained in any compliance schedule shall be submitted within 14-days following each scheduled date. If reporting noncompliance, the report shall include a description of:
   a. The reason for non-compliance.
   b. A description of the non-compliance.
   c. Schedule of tasks necessary to achieve compliance.
   d. An estimated date for achieving full compliance.

23. Any noncompliance, which threatens the landfill's containment integrity, shall be promptly corrected. Correction schedules are subject to the approval of the Executive Officer, except when delays will threaten the environment and/or the landfill's integrity (i.e., emergency corrective measures). Corrections initiated prior to Executive Officer approval shall be so stated in the above described report.

24. By April 30 of every year, the Discharger shall submit an annual Compliance Report addressing compliance with all terms of this Order. The report can be included in the landfill’s Annual Report to the Executive Officer.

25. The Discharger shall submit a Financial Assurance Report every five years that either validates the instrument's (described in Finding 16 of this Order) ongoing viability or proposes and substantiates any needed
changes. The next report is due **November 30, 2011** and every five years thereafter.

26. By **April 30, 2008**, complete the initial phase of the groundwater corrective action plan. The approved corrective action is monitored natural attenuation combined with phytoremediation (Finding No. 36). The initial phase of the corrective action shall consist of establishing the demonstration study, to include all necessary soil amendments, irrigation systems, and planting of candidate tree and shrub species. Annual progress reports shall follow, due on **April 30**(th) of each subsequent year, until the Executive Officer is satisfied that the corrective action achieves remedial objectives. **By October 30, 2010**, submit to the Executive Officer, for review and approval, an update to the corrective action plan that proposes the plant species and planting locations for the final phase of corrective action. The final phase of corrective action must be implemented by **April 30, 2011**.

27. By **August 31, 2008**, the Owner shall record a notation on the deed to the Landfill property, or some other instrument that a potential purchaser normally examines during title search. The deed notation shall include a detailed description of the closed landfill, including a map. The description must include at a minimum: the date that closure was completed; the boundaries including height and depths of the filled area; if the site was closed in increments, the boundaries of each waste management unit; and the location where the closure and postclosure plans can be obtained. A copy of the notation will be included in the Landfill record and the Owner will submit a copy of the recorded notation to the Central Coast Water Board Executive Officer. The notation must in perpetuity notify any potential purchaser of the property that:
   a. The land has been used as a landfill,
   b. The land use is restricted by the approved post-closure maintenance plan, pursuant to Title 27, Section 21170. The deed notation must include all information required by Section 21170,
   c. Pursuant to Title 27, Section 21090, should the Discharger default in post-

28. By **October 1, 2011**, the Discharger must submit an updated Report of Waste Discharge (hereafter “ROWD”) pursuant to CCR Title 27 §21710, to the Executive Officer. The ROWD may be submitted in the form of a Joint Technical Document (hereafter “JTD”), in accordance with Title 27 §21585 et al. The ROWD shall meet the following criteria:
   a. Contain information on waste characteristics, geologic and climatologic characteristics of the Unit and the surrounding region, installed features, precipitation and drainage controls, and closure and post closure maintenance plans, in accordance with CCR Title 27 §21740, §21750, §21760, and §21769.
   b. Include a completed SWRCB JTD Index, in accordance with CCR Title 27 §21585(b),
   c. Discuss whether, in the Discharger’s opinion, there is any portion of this Order that is incorrect, obsolete, or otherwise in need of revision.
   d. Include any other technical documents needed to demonstrate continued compliance with this Order and all pertinent State and Federal requirements.
   e. Include detailed information regarding regulatory considerations, operating provisions, environmental monitoring, and closure and postclosure.
   f. Details on the performance of the groundwater corrective action and alternative (evapotranspirative) cover.

**ENFORCEMENT**

29. The Discharger must comply with all conditions of this Order. Non-compliance violates state law and is grounds for enforcement action or modification of the Order.
30. Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of §13267 of the California Water Code, or falsifying any information provided therein, is guilty of a misdemeanor.

31. The Discharger and any person who violates Waste Discharge Requirements and/or who intentionally or negligently discharges waste or causes or permits waste to be discharged into surface waters or groundwater of the state may be liable for civil and/or criminal remedies, as appropriate, pursuant to Sections 13350, 13385, and 13387 of the California Water Code.

32. Provisions of this Order are severable. If any provision of this Order is found invalid, the remainder of this Order shall not be affected.

33. This Order does not authorize commission of any act causing injury to the property of another, does not convey any property rights of any sort, does not remove liability under federal, state, or local laws, and does not guarantee a capacity right.

34. All technical and monitoring reports submitted pursuant to this Order are being requested pursuant to §13267 of the California Water Code. Failure to submit reports in accordance with schedules established by this Order, attachments to this Order, or failure to submit a report of sufficient technical quality to be acceptable to the Executive Officer may subject the Discharger to enforcement action pursuant to §13268 of the California Water Code.

35. The Discharger must comply with all conditions of these Waste Discharge Requirements. Violations may result in enforcement actions, including 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 Water Board. [CWC Sections 13261, 13267, 13263, 13265, 13268, 13300, 13301, 13304, 13340, 13350].

The Discharger shall comply with the following submittal and implementation schedule for all tasks and/or reports required by this Order:

<table>
<thead>
<tr>
<th>REPORT AND IMPLEMENTATION DATE SUMMARY</th>
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<tbody>
<tr>
<td><strong>TASK</strong></td>
</tr>
<tr>
<td>Runoff diversion and erosion prevention [Provision No. E.4]</td>
</tr>
<tr>
<td>Vegetation placement over entire landfill area [Provision No. E.5]</td>
</tr>
<tr>
<td><strong>REPORT</strong></td>
</tr>
<tr>
<td>Wet Weather Preparedness Report [Provision No. E.14]</td>
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<tr>
<td>Compliance Report [Provision No. E.24]</td>
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<tr>
<td>Corrective Action Progress Report(s) [Provision E.26]</td>
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<tr>
<td>Updated ROWD [Provision No. E.28]</td>
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I, Roger W. Briggs, 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, Central Coast Region, on May 11, 2007.

__________________________
Executive Officer