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

SITE OWNER AND LOCATION

1. The City of Santa Cruz (hereafter "Discharger" or “City”) owns and operates the Santa Cruz Class III Landfill (hereinafter “Landfill”), known as the “City of Santa Cruz Resource Recovery Facility.”

2. The California Code of Regulations, Title 27 (CCR Title 27) regulates waste discharges to land. The terms used herein are defined in CCR Title 27, Section 20164.

3. The 100-acre Landfill is located in Section 17, Township 11 South, Range 2 West, Mount Diablo base and Meridian on Highway 1, three miles west of the City limit, and one mile north on Dimeo Lane; latitude 36°57'45"N and longitude 122°06'00"W. The Landfill consists of a 40-acre historic unlined canyon fill area along the south, north, and west slopes where partial final cover has already been placed, and the lined areas, which consist of 26.3 acres. The lined areas are subject to Subtitle D liner requirements. The Assessors Parcel Number for the Landfill is 059-121-01. The Landfill location is shown on Figure 1.

PURPOSE OF ORDER

4. The purpose of Waste Discharge Requirements Order No. R3-2006-0018 (Hereafter “Order” or “Order No. R3-2006-0018”) is to regulate proposed Landfill design and operational changes. This Order also updates and replaces Waste Discharge Requirements Order No. 94-62, adopted by the Water Board on November 18, 1994.

5. The Discharger submitted a Joint Technical Document (JTD) on March 10, 2005, to facilitate updating Order No. 94-62. The JTD provides a comprehensive description of Landfill design and operations. The JTD proposes and describes the following design and operational changes:

   a. Recognize the previously permitted discharge of waste in the West Canyon within the 50 foot buffer area.
   b. Allow acceptance of animal carcasses resulting from road kills, natural causes, etc. within city limits.
   d. Use of leachate for dust control.
   e. Disposal of sludge mixed with dry soil and used as cover material to promote vegetative growth for winterization erosion control on closed or partially closed slopes.
f. Use of alternate daily cover including tarps, wood chips, green waste and cementitious slurry materials such as Posi-shell.
g. Increased intake from 400 tons per day to 535 tons per day.

6. Order No. R3-2006-0018 includes the following key elements:
   a. Compliance review of the 100-acre Landfill.
   b. Description of landfill operations including waste management unit construction.
   c. Updated waste stream information.
   d. Allowance for treated wood waste disposal.
   f. Incorporation of the requirements of Order No. 93-84 “Waste Discharge Requirements Amendment for All MSW Landfills in the Central Coast Region” (Super Order), and thereby rescission of the Super Order.
   g. Modification to Prohibition B.5 to recognize the previously permitted discharge of waste in the West Canyon within the 50 foot buffer area.

LANDFILL DESCRIPTION AND HISTORY

7. Historically, the site was operated as a burn dump between 1926 and 1969. Prior to landfill development, two seasonal creeks flowed from the upper reaches of the North and West Canyons and converged near the middle of the property forming Lombardi Creek. Refuse fill blocks the flow of these seasonal creeks. In order to divert the two creeks under and around waste masses, the City constructed a fresh water bypass system that routes the water around the Landfill and back into the natural grade of Lombardi Creek down gradient of the Landfill’s southern extent. Elevation of the 100-acre landfill property ranges from 110 feet to 530 feet above Mean Sea Level. Figure 2 shows the Landfills current configuration and property line.

8. The Landfill site consists of a historic unlined canyon fill area, which contains waste within approximately 40 acres along the south, north, and west slopes where final cover has already been placed, and the lined areas, which will ultimately comprise 26.3 acres subject to Subtitle D liner requirements. The Subtitle D area is shown in Figure 3. The lined areas, when complete, will consist of four lined cells. Cell 1 and part of Cell 2 have already been constructed as described below. Construction of the next lined cell, Cell 3, is scheduled to begin after 2007. Figure 2 details the original waste disposal area and the Landfill property line (as well as buffer zones between the disposal areas and the property line). In the recently issued California Integrated Waste Management Board (CIWMB) Solid Waste Facility Permit, the maximum disposal intake was increased from 400 tons per day to 535 tons per day (not including recyclable or diverted tonnage).

9. Cell 1 was the first in a series of expansion cells in the Subtitle D area and is approximately 1.5 acres. Cell 1 was constructed in 1996-1997 in order to dispose of chromium-impacted wastes that had been excavated from Landfill leachate evaporation ponds. In the past, the ponds were used to evaporate landfill leachate and to dry out and dispose of local tannery sludge. Since these materials were found to contain high concentrations of chromium and were considered a threat to groundwater quality, the Water Board required these pond areas to be removed. The pond sediments and underlying soil were excavated and placed in Cell 1. Cell 1 has been filled to intermediate grade. No additional wastes are accepted in Cell 1 and the cover is left undisturbed.
10. Construction of part of Cell 2 was completed in July 2002 and landfilling operations commenced in 2003. Cell 2 includes approximately 4.5 acres of lined landfill area that is compliant with Subtitle D and CCR Title 27. Currently, the City plans to use Cell 2 as the winter fill area because it is easily accessible to vehicles during wet weather. Landfilling also continues in unlined areas west of Cells 1 and 2. Currently, the City is using the West Canyon as the dry season fill area and will continue to fill this area until final grades are achieved. Historic waste placement extends to the north portion of the western property line for approximately 250 feet in the West Canyon. Fill operations are continuing in this area as previously discussed. Therefore, new waste will be placed in this area. Within the active landfill near the center of the property and Cell 2 area, there is a reconsolidated burn ash pile. The burn ash pile was covered with geomembrane and soil protection layer, and will eventually be covered by additional refuse until design grades are achieved (Figure 4).

11. Ancillary facilities at the site include the following: the Recycling Center, an employee building (now used for storage), an equipment maintenance building, two administration office trailers, the Recycling Center-Skills Center trailer, a new mechanics’ office trailer, the scale house and the vehicle scale. In addition, there is a Gas-to-Energy Building, a Gas-To-Energy office trailer and a Household Hazardous Waste Drop-Off Facility. Other facilities include: a leachate pump station, two leachate collection ponds, gas extraction trench and treatment facility, two 10,000-gallon galvanized steel water tanks, one diesel/bio-diesel tank, one gas tank, one propane tank, one emergency stand-by generator for the Refuse Recovery Facility, a used oil storage tank and several storage sheds.

12. Land use within 1,000 feet of the Landfill includes agriculture, residential and State Parks land. The property immediately south of the Landfill is privately owned residential property, horse stables, landscaping materials distribution and agriculture farming. The rest of the properties adjacent to the Landfill are owned by the California Department of Parks and Recreation (State Parks). Most of the adjacent State Park’s land is part of Wilder Ranch State Park and some of the State Park’s land is leased to farmers. The headwaters of the two incised canyon drainages that used to converge under the landfill are owned by State Parks.

13. The Zoning and Coastal Permit issued by the City of Santa Cruz Zoning Administrator for the Landfill expansion is found in Appendix C of the JTD. This permit was issued on November 11, 1994. An update to this permit is not necessary since the design of the landfill area has not changed since the permit was issued and the corresponding California Environmental Quality Act analysis was conducted. The City’s General Plan designates the Landfill as a Community Facility (CF) and the zoning is Public Facility (PF).

WASTE TYPE & CLASSIFICATION

14. The Landfill is operated as a Class III Municipal Solid Waste Landfill as defined by CCR Title 27, Sections 20240 and 20260.

15. Waste received at the Landfill consists of non-hazardous residential, commercial and industrial solid waste classified in CCR Title 27, Section 20220(a) as Class III wastes. Class III wastes are all putresible and non-putresible solid, semi-solid, and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid or semi-solid wastes and other discard waste (whether solid or semi-solid consistency); provided that such wastes do not contain wastes that must be managed as hazardous wastes, or wastes that contain soluble pollutants in concentrations that exceed applicable water quality objectives or could cause degradation of waters of the state.
16. The largest percentage of waste received at the Landfill is mixed municipal solid wastes, non-hazardous commercial and industrial wastes, and construction/demolition debris wastes. With the exception wastewater sludge, these waste types do not require any specialized handling and are disposed using standard disposal operating procedures. Additionally, residential and commercial recyclable materials are received through City Sanitation collection and on a drop-off basis. “Green Waste,” which is vegetation such as grass, leaves and garden clippings is also accepted. Certain electronic waste from computers is accepted at the Recycling Center for shipping off-site to ECS Refiners of San Jose. Other computer hardware, such as hard drives, is placed in the metals pile at the Recycling Center as appropriate. The Landfill accepts household hazardous waste at the Household Hazardous Waste (HHW) Drop-Off Facility located at the Recycling Center. The household hazardous waste is not disposed in the landfill.

17. During 2004, the site received approximately 100,100 tons of waste. Disposed municipal solid waste comprised 57,000 tons while 43,100 tons of waste was diverted as miscellaneous fill, clean fill, wood, sludge used for erosion control, and recyclable material. Over the next five years, approximately 694,023 cy of airspace will be used for waste and daily and intermediate cover.

18. Based on the final excavation and grading plans and aerial photogrammetry from March 2004, the remaining total airspace of the Landfill is 6,029,272 cubic yards (cy) which includes the space created by the excavation for future landfill cells. The total liner and final cover soil requirements are 119,900 and 368,800 cy respectively. The remaining net air space (5,540,572 cy) was calculated by subtracting the total liner and total final cover requirement volumes from the total airspace. By using a 4:1 solid waste-to-daily and -intermediate cover ratio, the required volume of daily and intermediate cover is 1,205,854 cy and the available solid waste volume is 4,432,458 cy. The required cover material was calculated assuming a 4:1 ratio of waste to cover material. The current (2004) ratio of waste to cover material is significantly higher, as alternate daily covers (i.e. tarps, green waste) are being extensively used. However, for the purposes of these calculations, the conservative value of 4:1 was used; this assumption will be changed after five years of actual operations demonstrating that a higher waste to soil ratio was achieved. According to the JTD, as of March 2004, the estimated life of the Landfill is 34 years based on an estimated annual disposal rate of 98,873 cy/year beginning in year 2005, increasing to 156,265 cy/year in 2038 when it is estimated that the Discharger will exhaust Landfill capacity. The 2005 annual disposal rate was calculated by averaging the quantities for the previous three years (years 2002-2004.)

19. Wastes containing greater than one percent (>1%) friable asbestos are classified as hazardous under CCR, Title 22. Since such wastes do not pose a threat to water quality, Section 25143.7 of the Health and Safety Code permits their disposal in any landfill, providing waste discharge requirements specifically permit the discharge and the wastes are handled and disposed of in accordance with other applicable State and Federal statutes and regulations.

20. The Discharger proposes to accept treated wood waste at the facility. “Treated wood” means wood that has been treated with a chemical preservative for purposes of protecting the wood against attacks from insects, microorganisms, fungi, and other environmental conditions that can lead to decay of the wood and the chemical preservative is registered pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Sec. 136 and following). Existing law regulates the control of hazardous waste, but exempts from the hazardous waste control laws, wood waste that is exempt from regulation under the federal Resource Conservation and Recovery Act of 1976, as amended (RCRA), if the wood waste is disposed of in a municipal landfill that meets certain requirements imposed pursuant to the Porter-Cologne Water Quality Control Act for the classification of disposal sites, and the landfill meets other specified requirements outlined in Sections 25143.1.5 and 25150.7 of the Health and Safety Code. Section 25150.8 of the Health and Safety Code also provides that if treated wood waste
is accepted by a solid waste landfill that manages and disposes of the treated wood waste in the manner specified, the treated wood waste shall be deemed to be a solid waste, and not a hazardous or designated waste. The Discharger has indicated that all treated wood waste accepted at the facility will be handled and disposed of in accordance with the provisions outlined in Sections 25143.1.5, 25150.7, and 25150.8 of the Health and Safety Code.

GEOLOGY/HYDROGEOLOGY

21. Setting—The Landfill is located in the Coast Ranges geomorphic province in a canyon surrounded by rolling coastal foothills.

22. Topography—The Landfill is situated in a north-south trending, steep-walled Y-shaped canyon that drains to the Pacific Ocean approximately ¾ of a mile south of the site. The canyon, which is bordered by a series of relatively flat-topped ridges, is one of several that have been eroded into the coastal marine terraces uplifted on the southwest flank of Ben Lomond Mountain. At the northeast corner of the property, elevations on adjacent ridges are as high as 535 feet above mean seal level (MSL), while the elevation at the bottom of Lomardi Creek on the southwestern corner of the site is approximately 130 feet above MSL.

23. Geologic Structure—The Landfill is located within the Salinian Block in the Coast Ranges Geomorphic Province. The Salinian Block is characterized by a basement of Cretaceous quartz diorite type granitic and older metasedimentary rocks. The Salinian Block is partitioned into smaller blocks by a series of northwest trending right-lateral faults. The relative vertical movement of these faults has controlled the patterns of sedimentation in the region, with upthrown basement blocks serving as the provenance for the thick accumulation of Tertiary marine sediments found within intervening structural basins. According to the JTD, information from geologic borings and groundwater contours in the vicinity of the southern edge of the site suggest the presence of an east-west trending high-angle structure that acts as a local barrier to groundwater flow. In addition to the anomalous groundwater elevations, highly sheared bedrock in the Santa Cruz Mudstone was encountered during drilling of soil-pore gas probe W-20G near the postulated location for this structure. This feature does not appear as a fault on any of the professional geologic reports published for the region and, as a result, it is unclear whether this feature is a fault, an unconformity, a landslide shear plane or some other feature.

24. Stratigraphy—The geologic units within the vicinity of the Landfill from youngest to oldest include: recent alluvial deposits, Pleistocene marine terrace deposits, Tertiary Santa Cruz Mudstone, Tertiary Santa Margarita Sandstone and a Cretaceous quartz diorite basement complex. Bedding within the sedimentary units generally strikes approximately east-west and dips about two to eight degrees to the south. Literature review suggests that a nonconformity exists between the Tertiary units at the site and the underlying basement rocks. The nonconformity is likely to be an undulatory surface, which also dips at shallow gradient to the south. Five distinct Pleistocene terrace deposits have been mapped at successive elevations in the Landfill area. The Santa Cruz Mudstone formation unconformably underlies the terrace deposits; however, at the Landfill, much of the upper portion of the mudstone has been removed by erosion and during replacement of the marine terraces. The valley slope is steeper than the dip of the mudstone beds and the mudstone thins towards the toe of the Landfill. Underlying the mudstone is the Santa Margarita sandstone. The total thickness of the Santa Margarita sandstone is variable throughout the Landfill area and, in general, it thins toward the toe of the landfill because of erosion. The Santa Margarita sandstone is exposed near the southerly limits of waste at the base of the canyon that discharges to Lombardi Creek.
Faulting/Seismicity—Several active and potentially active faults exist within a distance of engineering significance to the Landfill. These faults include the San Andreas, Zayante, San Gregorio-Palo Colorado and the Monterey Bay faults. The nearest active fault is the San Gregorio-Palo Colorado Fault, which is located approximately six miles west. No active faults have been mapped within the immediate vicinity of the Landfill.

In January 1996, GeoLogic Associates (GLA) prepared a slope stability analyses for the Landfill. The report is a summary of the slope stability analyses performed in order to evaluate plans for Landfill development, particularly for Cell 1 development, and repair of certain slopes. The project included the following: review of existing data, limited field and laboratory study, identification of seismic hazards, and computer-aided stability analyses of existing and planned landfill geometries. In summary, the report concluded that the planned Master Fill Plan fill slopes (2:1 between benches and 2.4:1 to 2.5:1, overall) would have adequate slope stability properties provided that groundwater elevations did not vary significantly from the elevations measured at the time and included in the calculations.

In February 1996 GLA submitted an addendum slope stability analyses to the Discharger due to change in the Master Fill Plan. The change called for the Landfill to attain a maximum elevation of 510 feet and for the southerly landfill slope to be reconfigured at a 2.5:1 gradient gross (2:1 between benches). Thus, the addendum presented the results of additional slope stability calculation performed to evaluate these changed conditions. A slope stability analyses for Cell 2, which includes an evaluation of seismic stability, was also prepared for the Discharger by GLA. This stability analyses used the computer programs EQFAULT and EQSEARCH to estimate the maximum ground accelerations for the MPE, which is considered to be an earthquake causing a maximum peak ground acceleration (PAG) value at the Landfill with a return period of 100 years, or the maximum historical ground acceleration at the site, whichever is greater. EQFAULT was also used to determine the active faults within a 60 mile radius of the Landfill and to determine the PGA at the site corresponding to earthquake magnitudes on these faults with a return period of 100 years. Based on the analyses, a maximum PGA of 0.33g, associated with a Magnitude 6.75 earthquake on Palo Colorado–San Gorgorio fault, was used for the project stability analyses. Geo-slope’s SLOPE/W program was used to analyze potential failure surfaces in a grid pattern to identify the minimum factor of safety for both the “typical liner configuration” (i.e., clay liner overlain by a high density polyethylene [HDPE]) and for the alternative geosynthetic clay liner (GCL) configuration (i.e., GCL and HDPE). GLA concluded that the configuration for Cell 2 met the acceptable design criteria for slope stability. Please refer to the “Results of Slope Stability Analyses-Cell 2-Santa Cruz Resource Recovery Facility” for a complete description of their analyses and the supporting data and calculations. Appendix G of the JTD includes the above referenced slope stability reports.

Hydrogeology—The groundwater flow system in the vicinity of the Landfill is complex. Groundwater recharge occurs in the exposed Lompico Sandstone to the north of the Landfill and in the Santa Margarita Sandstone exposed to the south and east of the Landfill. Local Landfill studies indicate that groundwater occurs within four hydrologically connected units. These are the alluvial unit (Holocene), the marine terrace unit (Pleistocene), the Santa Cruz Mudstone (early Pliocene) and the Santa Margarita Sandstone (Mio-Pliocene). Using information from groundwater monitoring wells between 1985 and 1995, Landfill hydrogeology was assessed including a description of the water bearing units, the groundwater conditions, flow directions, and flow rates. The following is a description of the water-bearing units:

**Alluvium:** Groundwater flow within the unconsolidated, porous alluvium is limited by the narrow distribution of the unit within the historic canyon bottom. Alluvial groundwater, originating within the headwaters of the northern and western canyons, has historically flowed to the south and is
believed to be flowing beneath the refuse mass. Construction of the fresh water by-pass tunnel system, including the two groundwater cut-off walls at the North and West Canyons, should significantly reduce the volumes of alluvial groundwater flowing beneath the refuse at this site. Construction of a groundwater cut-off wall at the southern toe of the landfill significantly reduces the volume of groundwater discharged from the site.

**Marine Terrace/Fill Unit:** From sampling and boring logs of wells in the southeast corner of the Landfill, the Marine Terrace/Fill unit appears to be locally saturated. Well construction data indicates the depth to Terrace/Fill groundwater in this area is generally less than 10 feet and its saturated thickness is less than 10 feet. In some areas, perched groundwater at the base of the Fill unit is less than about five feet thick and overlies unsaturated Marine Terrace soils. Groundwater within the unit flows southward and is separated from groundwater within the underlying Santa Cruz Mudstone by unsaturated Mudstone deposits.

**Santa Cruz Mudstone:** The Santa Cruz Mudstone is pervasively fractured and locally yields significant volumes of groundwater. Groundwater within the unit appears to occur primarily within fractures and little “grain-to-grain” (primary) porosity is interpreted to exist. While fracturing and weathering in the Santa Cruz Mudstone unit may impose small scale or localized control on groundwater flow, the pervasive character of fracturing is believed to result in flow that mimics porous media conditions. Near surface weathering horizons within the Santa Cruz Mudstone appear to be less fractured than deeper, better-cemented and brittle sequences. As an interpreted consequence, these weathered "clayey" portions of the unit appear to provide a locally "semi-confining cap" above the water-bearing portion of the unit. As a further consequence, within the northern two-thirds of the Landfill, groundwater within both the Santa Cruz Mudstone and Santa Margarita Sandstone appears to occur in a semi-confined condition, and wells within both units exhibit an upward vertical gradient. Beneath the southern one-third of the property, the Santa Cruz Mudstone has been eroded away within the historic canyon bottom and, as a result, groundwater flow in this area is limited to either the alluvium or the Santa Margarita Sandstone.

**Santa Margarita Sandstone:** Drilling and well construction data indicate that the granular Santa Margarita Sandstone unit is relatively loosely cemented and that groundwater flow within this unit should also be perpendicular to equipotential lines. Construction of monitoring well W-2DR in the West Canyon area demonstrated that groundwater within the Santa Margarita Sandstone occurs in an artesian condition in this area. In contrast, conditions during the construction of monitoring well W-4T and vadose zone monitoring point W20G indicate that the Santa Margarita Sandstone is unsaturated along the southern edge of the Landfill. This condition may be a result of draining the unit where it "daylights" beneath refuse in the southern third of the historic canyon, the presence of a local barrier to groundwater flow, or locally well-cemented, bituminous character.

Site potable water is transferred from the City’s water treatment plant and piped to the Landfill. Water for dust control and fire protection is provided from North Coast sources and is pumped to a 10,000 gallon water tank that is located on the east ridge.

**GROUNDWATER, SURFACE WATER, AND STORM WATER**

27. **Groundwater**—Landfill groundwater flows from the ridges towards the historical canyon bottom in the center of the property. The groundwater flow gradient parallel to the historic canyon axis is approximately 0.05 foot per foot, while the groundwater flow gradient from the ridgelines to the historical canyon axis is approximately 0.19 foot per foot. According to the July 2004 Detection Monitoring Report, monitoring of the seven wells near the Recycling Center during the second quarter 2004 indicated that groundwater in this area flows in a south-southeasterly direction at a
gradient of approximately 0.11 foot per foot. The July 2004 report summarizes that the groundwater dewatering system beneath Cell 1 and Cell 2 appears to have a minor effect on groundwater flow at the north end of the recycling area.

Literature review indicates that the hydraulic conductivity of the unconsolidated relatively fine-grained alluvial and terrace materials may range from approximately 0.1 to 0.0001 ft/day and that the effective porosity of these units ranges from 0.1 to 0.2. The better consolidated character of the terrace units is expected to result in generally lower hydraulic conductivity and lower effective porosity characteristics than the alluvial units.

Well recovery rates observed during well purging and sampling operations indicate that the Santa Cruz Mudstone unit appears to have erratic hydraulic characteristics, depending upon the degree of local weathering conditions. At some locations the Mudstone unit yields abundant water while at other locations it yields little water. Literature review suggests that the hydraulic conductivity \( K \) of this fractured unit may range from as high as about 3 ft/day to as little as 0.0003 ft/day, and that its effective porosity \( ne \) as a ratio of the mass of open fractures to rock) may also have a significant range (from about 0.05 to perhaps as high as 0.2).

As determined by a pumping test, the hydraulic conductivity of the Santa Margarita Sandstone unit \( (K = \pm 1.35 \text{ ft/day}) \) is consistent with published values for friable sandstone units. Literature review suggests that, where unaffected by bituminous tar, the effective porosity \( ne \) of the sandstone unit should be on the order of approximately 0.20.

28. **Organic Water Quality**—Three volatile organic compounds (VOCs) exceeding drinking water standards were detected in monitoring well W-13D (Benzene, 1,4-Dichlorobenzene, Vinyl Chloride), and one VOC in monitoring well W-14D, during the fourth quarter 2004 groundwater monitoring event. The two wells are located down gradient of the landfill. The detections and concentrations were consistent with historic analytical results. A corrective action program was implemented in 2005 with the installation of a gas and groundwater collection trench along the southeast property line. The collection trench is adjacent the two mentioned wells and to a waste historic disposal area now located under a recently asphalted area at recycling facility. The gas collected from this trench is expected to improve water quality by removing landfill gases, which are the likely source of VOCs to groundwater in wells W-13D and W-14D.

29. **Inorganic Water Quality**—Two compounds, sulfate and total dissolved solids, were detected exceeding secondary drinking water standards in monitoring well W-14D during the fourth quarter 2004 groundwater monitoring event. This well is located down gradient of the landfill and the two compounds were detected at concentrations above those in background wells. The corrective action program for these constituents also involves the gas and groundwater collector trench along the southeast property line. Monitoring data will be used to assess future trends in water quality. Inorganic compounds are typically used as indicators of a release by statistically comparing their concentrations to naturally occurring background water quality for the same parameters.

30. **Supply Wells**—One supply well is located off-site and within one mile of the Landfill however, there is no historical groundwater elevation data available for this well. There is one other well within one mile of the Landfill, which is closest to the City Landfill at 575 Dimeo Lane on the Humphrey property (Well No. 11S/02W-16). This well was dry when drilled and has never been in service. Another well, located on the Landfill property, was a City water well No. 11/02W-17; it was destroyed on August 31, 2005, and filed under California Well Completion Report No. 0911525. Based on the site groundwater flow conditions and surface water flow directions, it is anticipated that groundwater generally flows from north to south at a gradient that is generally parallel to the
surrounding topographic gradient. The water quality within the aforementioned wells is not affected by the Landfill.

31. **Groundwater Separation**—California Code of Regulations Title 27, Section 20240(c), requires the Discharger to operate the Landfill to ensure that wastes will be a minimum of five feet above highest anticipated groundwater, or engineered alternative. This operational requirement reduces leachate generation and impairment of beneficial uses. Current waste management units meet the separation criteria.

32. **Surface water**—Prior to landfill development, two seasonal creeks flowed from the upper reaches of the North and West Canyons and converged near the middle of the property forming Lombardi Creek. Refuse fill currently blocks the flow of these seasonal creeks. In order to divert the two creeks under and around waste masses, the City constructed a fresh water bypass system that routes the water under and around the landfill and back into the natural grade of Lombardi Creek down-gradient of the southern “toe” of the landfill.

33. **Storm Water**—The Landfill is covered under the State Water Resources Control Board (SWRCB) General Permit for Storm Water Discharges Associated with Industrial Activities. Surface water monitoring is conducted twice a year pursuant the permit. Sampling is conducted at monitoring station DS-1, which is also used as the detection monitoring program down-gradient surface water monitoring station. DS-1 is located in Lombardi Creek just below the point where the freshwater bypass tunnel daylights at the southern toe of the Landfill. As required by the permit, a sample is collected during the first qualifying major storm of the rainy season and again later in the year during another qualifying storm event. Both of these samples are collected within the first hour of discharge. Samples are analyzed for pH, oil and grease, total iron, temperature, electrical conductivity, iron, total dissolved solids, and total suspended solids. An annual report, including sample results, is submitted to the Water Board by July 1st of each year for the previous twelve-month period.

34. **Precipitation**—Daily and quarterly rainfall data for the Landfill are reported in the Semi-Annual Detection Monitoring Reports, which are submitted to the Water Board. During the first and second quarters of 2004, precipitation totaled 11.80 inches. Also, during this period, the most intense 24-hour rain event yielded approximately 1.87 inches of rain. In 2003, during the first and second quarters of the year, precipitation totaled 7.83 inches. Also, during this period, the most intense 24-hour rain event yielded approximately 0.66 inches of rain. During the third and fourth quarters of 2003, precipitation totaled 11.27 inches. During this time period, the most intense 24-hour rain event yielded approximately 2.69 inches of rain. Thus, in 2003, the total precipitation was 19.10 inches of rain. Annual precipitation data is gathered from the California Irrigation Management Information System station closest to the Landfill. This station is DeLaveaga, which is located in the City of Santa Cruz approximately 3 miles from the Landfill. The DeLaveaga station is located approximately one and a half to two miles inland and is at an elevation of 300 feet, reasonably similar to the Landfill. In accordance with the rainfall frequency map provided in the JTD, the calculated peak 100-year, 24-hour storm event was determined to be 10.3 inches.

35. **Floodplain**—The Landfill is not in a 100-year flood plain according to the Federal Emergency Management Agency maps for Santa Cruz County. However, as noted in Findings 7 and 32, the City constructed a fresh water bypass system that routes the water under and around the landfill.

36. **Springs**—As described in the Preliminary Closure Plan, dated July 24, 1992, and revised on February 16, 1993, prepared by Brown and Caldwell for the City, the Lompico Sandstone to the north of the Landfill is considered to be the source of groundwater identified beneath the site. Groundwater contained in the Lompico Sandstone and the Santa Margarita Sandstone in the northern portion of the
Landfill is under confined conditions. The Sandstones are confined between the quartz diorite basement rock and the overlying Santa Cruz Mudstone. The confined conditions result in artesian pressure, observed at the northern end of the Landfill, and ultimately a discharging groundwater system. The Lompico Sandstone pinches out north of the Landfill and this pinching out, combined with the erosion of the Santa Cruz Mudstone and the thinning the Santa Margarita Sandstone near the southern portion of the Landfill, results in a discharge of groundwater through springs where the confining layer thins.

In the March 1993 Periodic Site Review report, which was prepared for the City by Brown and Caldwell, four springs within one mile of the landfill were identified. One of the springs is located on Landfill property, but is buried underneath the waste mass and may be partially controlled by the fresh water bypass. According to Brown and Caldwell, two springs, identified as SA and S-2, significantly dewater the Santa Margarita Sandstone as evidenced by the small amount of groundwater that was observed in monitoring well Well-4D (abandoned in the mid-1990s). However, one well located within one mile south and east of the landfill in the Santa Margarita Sandstone produce quantities of groundwater suitable for irrigation, though it is currently not in use. Groundwater present in the Santa Margarita Sandstone to the east and south is considered part of a different groundwater regime relative to the groundwater present in the Santa Margarita Sandstone beneath the landfill. The source of groundwater in the Santa Margarita Sandstone to the south is largely due to direct recharge.

CONTROL SYSTEMS/MONITORING PROGRAMS

37. Leachate Management System—The Landfill is located where two canyons converge forming the lower portion of Lombardi Creek. Two pipelines, one 36-inch and one 30-inch, which were originally used for diverting runoff, are buried at the bottom of the canyon floor. These concrete pipes were originally used to transport runoff from the northern and western canyons under the refuse prism to Lombardi Creek. The pipes are now sealed at the upstream ends but leachate and groundwater flow into them through cracks. These pipes (primarily the 36-inch pipe) are now used as the primary leachate collection feature under the unlined portions of the Landfill. The pipes discharge into the leachate ponds located at the southern toe of the Landfill.

Cells 1 and 2 are joined to provide a contiguous lined area including extensions of the existing subdrain collection and leachate collection system. The leachate collection and removal system (LCRS) for Cell 1 and Cell 2 consists of the following:

- Six inch diameter HDPE slotted and solid pipe;
- Drainage gravel; and
- 8-oz geotextile between the LCRS gravel layer and protective soil cover in order to separate the protective cover from the LCRS gravel.

The LCRS for Cells 1 and 2 was designed to remove leachate efficiently and to maintain the potential hydraulic head on the composite liner system to less than 12 inches, as required by CCR Title 27. Leachate collected in Cell 2 is conveyed to the Cell 1 system. The LCRS for Cell 1 was constructed with an outfall pipe that drains south of the lined area and connects to the outgoing six-inch leachate line carrying leachate that has been pumped from the leachate ponds. The two lines meet underground and then the combined flow goes down Dimeo Lane to the City’s sanitary sewer system.

Based on calculated results using the “HELP 3” computer model, the peak daily leachate generation that may be expected within the planned 26.3-acre landfill liner expansion area, when complete, is 13.5 gallons per minute (gpm). The LCRS for this area and the groundwater collection systems underneath the liner tie into the leachate transport pipeline. The volume of groundwater and leachate
collected and removed from the facility during the first and second quarters of 2004 were approximately 4,100,310 gallons and 5,153,450 gallons respectively.

38. **Landfill Gas Control**—The gas control and collection system consists of a network of 25 vertical gas collection wells, lateral collector pipes, and header pipes which terminate at a single 933 kW/h gas-to-energy plant located north of the Recycling Center. Horizontal wells will be placed in Cell 2 and in future cells after several lifts of refuse have been placed in the cell. In addition, as previously mentioned, in late 2005, construction was completed for groundwater and gas collection pipes, a treatment facility, and a horizontal trench curtain to capture and remove migrating gas in the southeast corner of the Landfill adjacent to the Recycling Center.

39. **Groundwater Monitoring**—There are 14 groundwater monitoring wells, and four piezometers per the monitoring and reporting program. The compliance wells are as follows: W-3S, W-3DR, W-4T, W-4S, W-9D, W-13D, and W14-D. Of these, W-4T, W-4S, W-13D, and W14-D are located in the recycling area. The up-gradient wells are: W-1SR, W-1DR, W-2SR, W-2DR, W-7D, W-8D, and W-11-D. Groundwater sampling has been conducted at the Landfill since 1990. Groundwater samples are analyzed for inorganic parameters and VOCs. At a minimum, the 47 VOCs are analyzed and reported pursuant to 40 Code of Federal Regulations, Part 258. Field measurements of water chemistry are conducted to ensure that the water sampled is representative of fresh water in the screened, water-bearing zone. These field measurements include temperature, pH, electrical conductivity, dissolved oxygen, and turbidity.

40. **Leachate Monitoring**—As noted in Finding 37, Landfill leachate collected beneath the facility and former surface water bypass system, flows down Dimeo Lane to the City’s sanitary sewer system. Leachate and groundwater from the interceptor collection trench commingle and flow by gravity to the leachate collection ponds at the toe of the landfill where liquids are pumped downtown to the City’s sanitary sewer system and the Wastewater Treatment Facility. The mixing creates leachate that Water Board staff determined was acceptable for application over Landfill areas for dust suppression. The discharger performs leachate monitoring to assess what is being discharged to the City’s sanitary sewer system. The discharger also conducts leachate monitoring when it intends to use leachate for dust suppression.

41. **Surface Water Monitoring**—The surface water monitoring stations are: US-1, US-2, and DS-1. The up-gradient surface water stations, US-1 and US-2, are located in the North Canyon pond and West Canyon pond respectively. DS-1 is the down-gradient surface water station located at the southern toe of the landfill, near the property boundary, just below where the fresh water bypass tunnel exits to form Lombardi Creek. Station DS-2 is no longer sampled per the MRP. Surface water samples are currently analyzed for twelve inorganic parameters. In addition, field measurements of temperature, pH, electrical conductivity, dissolved oxygen, and turbidity are obtained from calibrated instruments at the time of sampling. Surface water samples are not analyzed for VOCs.

42. **Landfill Gas Monitoring**—There are 10 perimeter vadose zone monitoring wells and 3 temporary gas probes. The 10 perimeter vadose zone gas monitoring wells consist of 8 historical wells and 2 new perimeter gas monitoring stations that were installed in Summer 2004. In accordance with CCR Title 27, the original eight vadose zone wells are positioned on approximately 1,000 foot centers around the perimeter of the of the Landfill to depths equivalent to adjacent refuse or five to 10 feet above groundwater. Where the borehole was deeper than 20 feet, soil-pore gas monitoring probes were “nested” to provide the ability to monitor more than one discrete depth interval. The two new perimeter vadose zone wells are located along the southern boundary of the Landfill property and each has three nested probes at discreet sampling intervals. The three temporary probes are single probes that are also located along the southern boundary of the property.
BASIN PLAN

1. The Water Quality Control Plan, Central Coast Basin (Basin Plan), was adopted by the Water Board on September 8, 1994, and approved by the SWRCB 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 of the Basin Plan.

2. Present and anticipated beneficial uses of surface waters downgradient of the discharge include:
   a. Agricultural Supply
   b. Groundwater Recharge
   c. Non-Contact Water Recreation
   d. Contact Water Recreation
   e. Wildlife Habitat
   g. Cold Freshwater Habitat

3. The beneficial uses of groundwater in the vicinity of the Landfill are:
   a. Domestic and Municipal Supply
   b. Agricultural Supply
   c. Industrial Supply

CALIFORNIA ENVIRONMENTAL QUALITY ACT

1. The development plan for the Landfill described in the JTD was analyzed for environmental impacts in an Initial Study dated March 2002, which determined that a Negative Declaration was appropriate. CEQA documentation for the plan. The Notice of Determination approving the project was dated August 14, 2002.

2. This Order contains prohibitions, discharge specifications, water quality protection standards, and provisions intended to protect the environment by mitigating or avoiding impacts of the project on water quality. This Order is for an existing facility and therefore is exempt from provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) in accordance with Title 14, Chapter 3, and Section 15301.

GENERAL FINDINGS

1. The Landfill currently meets all Title 27 criteria for classification as a Class III Landfill suitable to receive non-hazardous solid wastes.

2. The Landfill operates under the following Orders and Permits:
   a. Waste Discharge Requirements Order No. 94-62.
   b. Waste Discharge Requirements Order No. 93-84.
   d. National Pollutant Discharge Elimination System General Permit No. CAS000001, Waste Discharge Requirements For Discharges of Storm Water Associated With Industrial Activities Excluding Construction Activities (Water Quality Order No. 91-13 DWQ), revised 1997.
   e. CIWMB Solid Waste Facility Permit No. 44-AA-0001.
   f. Monterey Bay Unified Air Pollution Control District Title V Operating Permit TV 31-02.
g. Monterey Bay Unified Air Pollution Control District permit to operate 6233B.
h. Santa Cruz County Environmental Health Service Permit to Operate.
i. City of Santa Cruz Zoning Permit No. 94-245.
j. Monterey Bay Unified Air Pollution Control District Gas Extraction Trench and Treatment Facility Permit to Operate 11300.

3. This Order implements the prescriptive standards and performance goals of CCR Title 27, as promulgated on July 18, 1997, and in conformance with the goals of the Basin Plan.

4. In June 2004, the Discharger demonstrated availability of financial resources to conduct closure and post-closure maintenance activities.

5. In January 2004, the Discharger demonstrated a Financial Assurance Instrument for corrective action. The Discharger updated its cost estimate for “worst case” corrective action reasonably foreseeable release at the Landfill. This was reported to the CIWMB in June 2004, and the cost estimate is annually adjusted for inflation. It covers the costs associated with a Corrective Action Program, an Evaluation Monitoring Program, and annual testing, operation, and maintenance.

6. On February 22, 2006, the Water Board notified the Discharger and interested agencies and persons of its intention to update the Landfill Waste Discharge Requirements and has provided them with a copy of the proposed Order and an opportunity to submit views and comments.

7. After considering all comments pertaining to this discharge during a public hearing on May 12, 2006, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED pursuant to authority in Section 13263 of the California Water Code, the City of Santa Cruz, its agents, successors, and assigns may discharge wastes at the Santa Cruz Class III Landfill, providing compliance is maintained with the following:

A. COMPLIANCE WITH OTHER REGULATIONS, ORDERS AND STANDARD PROVISIONS

1. Discharge of waste is a privilege, not a right, and authorization to discharge waste is conditioned upon the discharge complying with provisions of Division 7 of the California Water Code and with any more stringent limitations necessary to implement the Basin Plan, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should ensure conditions are met and mitigate any potential changes in water quality due to the project.

2. Discharge of waste shall comply with all applicable requirements contained in the California Code of Regulations Title 27, Division 2, Solid Waste (CCR Title 27) and Title 40 Code of Federal Regulations Parts 257 and 258 (40 CFR) Solid Waste Facility Disposal Criteria. 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.

3. This Landfill is no longer subject to this Water Board’s Order No. 93-84 “Waste Discharge Requirements (WDR) Amendment for All Municipal Solid Waste Landfills in the Central Coast Region” (Super Order). The Super Order updated all Region 3 landfill WDRs to comply with the updated federal landfill regulations, 40 CFR Parts 257 and 258. Through compliance with CCR Title 27 and 40 CFR Parts 257 and 258 as required above in A.2, the Discharger will satisfy requirements identical to those within Order No. 93-84.
4. The Discharger shall monitor potential releases from the Landfill related to storm 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 (NPDES) General Permit No. CAS000001 Waste Discharge Requirements for Discharge of Storm Water Associated with Industrial Activities Excluding Construction Activities.”

5. This Landfill is subject to this Water Board’s Cleanup and Abatement Order No. R3-2002-0130 “Moratorium on the Disposal of Decommissioned Materials to Class III and Unclassified Waste Management Units” adopted on October 11, 2002.

B. PROHIBITIONS

1. Discharge of waste to areas outside the Permitted Landfill Boundary, as identified on Figure 3, is prohibited.

2. Discharge of waste (solid or liquid) to areas within the Permitted Landfill Boundary that have not previously received waste is prohibited unless a composite liner system, as described in Specification C. 29, is installed and accepted by the Executive Officer. Inert wastes, as defined in CCR Title 27, Section 20230(a), may be disposed of outside the composite liner system and within the permitted waste footprint of the Landfill, as described in Specification C. 18, is implemented to demonstrate that the waste is inert.

3. Discharge of the following types of wastes is prohibited:
   a. Radioactive wastes.
   b. Designated waste.
   c. Hazard waste, except wastes containing greater than one percent (>1%) friable asbestos.
   d. Chemical and biological warfare agents.
   e. Waste solvents, dry cleaning fluids, paint sludge, pesticides, phenols, brine, and acid and alkaline solutions.
   f. Oils or other liquid petroleum products.
   g. Wastes that have the potential to reduce or impair the integrity of containment structures or which, if commingled with other wastes in the unit, could produce violent reaction, heat or pressure, fire or explosion, toxic by-products, or reaction products.
   h. Wastes that require a higher level of containment than provided by the Landfill.
   i. Liquid or semi-solid waste containing less than 50 percent solids by weight. This includes dewatered sewage or water treatment sludge, landfill leachate and gas condensate, except as allowed by Specification C. 35 and Provision E. 15.

4. Discharge of solid waste, liquid waste or leachate to surface waters, ponded water from any source, surface water drainage courses, or groundwater is prohibited.

5. Discharge of waste within 50 feet of the property line or within 100 feet of surface waters or domestic supply wells is prohibited. However, the Discharger may submit a request to discharge waste within 50 feet of the property line. The request shall include an irrevocable access and operations easement with the adjacent property owner and shall be approved by the Executive Officer, prior to waste disposal. This prohibition does not apply to the area that is being filled as part of the originally approved permit when filling began—i.e. part of the originally approved 67 acre fill area that did not include a 50 foot setback in the West Canyon area because of the near vertical profile of the West Canyon wall (Figure 3).
6. Disposal site operations shall not be a source of odor nuisance.

7. Disposal of wastes within five (5) feet of the highest anticipated elevation of underlying groundwater, including the capillary fringe, is prohibited unless an Executive Officer approved engineered alternative in accordance with CCR Title 27, Section 20080 (b) is in place.

C. SPECIFICATIONS

General Specifications

1. The Discharger shall implement the attached MRP No. R3-2006-0018, including any addendum thereof, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents, or any unreasonable beneficial use impairment associated with and or caused by the discharge of waste. The Executive Officer may amend the Monitoring Reporting Program at any time to determine compliance with Order No. R3-2006-0018.

2. The discharge shall neither cause nor contribute to any surface water contamination, pollution, or nuisance, 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.
   e. The introduction or increase in concentration of toxic or other pollutants and contaminants resulting in unreasonable impairment of beneficial uses of waters of the State.

3. “Treated wood” wastes may be discharged, but only to an area equipped with a composite liner and leachate collection and removal system, as described in Construction Specification C.29, and shall be handled in accordance with California Health and Safety Code Sections 25143.1.5 and 250150.7. “Treated wood” means wood that has been treated with a chemical preservative for purposes of protecting the wood against attacks from insects, microorganisms, fungi, and other environmental conditions that can lead to decay of the wood and the chemical preservative is registered pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Sec. 136 and following). This may include but is not limited to waste wood that has been treated with chromated copper arsenate (CCA), pentachlorophenol, creosote, acid copper chromate (ACC), ammoniacal copper arsenate (ACA), ammoniacal copper zinc arsenate (ACZA), or chromated zinc chloride (CZC).

4. Treated wood must be managed to ensure consistency with Sections 25143.1.5 and 25150.7 of the Health and Safety Code. If a verified release is detected from the waste management unit where treated wood is disposed, the disposal of treated wood shall be terminated at the unit with the verified release until corrective action ceases the release.

5. Discharge Specifications C.3 and C.4, above, apply only to treated wood waste that is a hazardous waste solely due to the presence of a preservative in the wood, and is not subject to regulation as a hazardous waste under the federal act.

6. The discharge shall not cause an increase in concentration of waste constituents in soil-pore gas, soil-pore liquid, perched water, groundwater or geologic materials outside of the Point of Compliance (as defined by CCR Title 27).
7. The Discharger shall conduct intake load checking as specified by this Order including the attached MRP, and shall monitor for radioactive materials in the incoming waste.

8. The Discharger shall remove and relocate any wastes discharged in violation of these requirements.

9. All refuse material that is wind-blown outside the active Landfill area shall be collected regularly and disposed of in the Landfill. If wind-blown litter becomes a continuing problem, a containment barrier (additional screens and/or fences) shall be constructed to prevent spreading of refuse.

10. Refuse shall be covered daily by at least six inches of soil cover material or an Executive Officer-accepted alternative daily cover and cover frequency. Daily cover shall promote lateral runoff of rainfall away from the active disposal area.

11. Water used over areas underlain by waste within unlined Landfill areas shall be limited to the minimum amount necessary for dust control and construction.

12. Water collected in any storm water catchment basin or a site water treatment facility may be used in minimum amounts necessary for dust control, compaction, or irrigation of cover vegetation provided:
   a. The water does not infiltrate past the vegetation root zones or past a depth where effective evaporation can occur.
   b. The water does not contain or carry waste constituents.

13. Surface drainage from tributary areas and internal site drainage from non-landfill surface or subsurface sources shall not contact or percolate through wastes.

14. To prevent erosion and percolation through the waste, permanent drainage ditches crossing over Landfill areas shall be lined with either a synthetic liner or at least a one-foot-thick layer of soil having an in-place hydraulic conductivity of $1 \times 10^{-6}$ cm/sec or less, or an alternative material that restricts infiltration of surface waters into the underlying waste as approved by the Executive Officer.

15. Waste shall not be discharged to a wetland, as defined in 40 CFR Section 232.2(r), or to any portion thereof, unless the Discharger successfully completes all demonstrations pursuant to 40 CFR Section 258.12(a). Such demonstration is subject to approval of the Executive Officer.

16. The Discharger shall monitor potential releases from the site related to surface water runoff by complying with all National Pollutant Discharge Elimination System (NPDES) Stormwater Monitoring Program requirements.

17. Water Board staff shall be notified within 24 hours by phone, with a written report to follow within seven days, of any slope failure or leachate seep occurring at the Landfill. Any leachate seep or any failure, which threatens the integrity of containment features or the Landfill, shall be promptly corrected and the methods shall be so stated in the written report.

18. Inert wastes, as defined in CCR Title 27, Section 20230(a), may be disposed of outside the composite liner system and within the permitted waste footprint of the Landfill. The discharger shall characterize inert liquid waste in accordance with the Executive Officer-approved Liquid Waste Sampling Plan to demonstrate that the waste is inert as described in Prohibition B. 2.

**Wet Weather**
19. **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 to prevent erosion or flooding of the Landfill and to prevent surface drainage from contacting or percolating through wastes.

20. **Throughout the rainy season of each year**, a compacted intermediate soil cover designed and constructed to minimize percolation of precipitation through wastes shall be maintained over all waste disposal areas containing buried waste. The soil cover shall be in place by **October 1 of each year**. The thickness and permeability of the intermediate cover shall be based primarily on site-specific conditions including, but not limited to: length of exposure time; volume of underlying material; permeability, thickness and composition of existing cover; amount of yearly rainfall; depth to groundwater; beneficial uses of underlying groundwater; site-specific geologic and hydrogeologic conditions; existing groundwater impacts and effectiveness of existing monitoring system. The only exception to this specification is the working face. The working face shall be confined to the smallest area practicable based on the anticipated quantity of waste discharged and required Landfill facility operations. Landfill areas that have been provided with an Executive Officer-approved vegetative layer shall not be required to satisfy this requirement. Based on site-specific conditions, the Executive Officer may require a thicker soil cover for any portion of the Landfill prior to the rainy season.

21. **By October 1 of each year**, vegetation shall be planted and maintained as necessary to minimize erosion on interim cover slopes and on slopes at final elevation. Vegetation shall be selected to require a minimum of irrigation and maintenance. Upon written Executive Officer approval, non-hazardous sewage 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.

22. If adequate soil cover material is not accessible during inclement weather, such material shall be stockpiled during favorable weather to ensure year-round compliance.

23. All Landfill surfaces and working faces shall be graded and operated to minimize rainfall infiltration into wastes, to prevent standing water, and to resist erosion.

24. **Rills** in the cover (final or interim) exceeding six inches in depth must be backfilled throughout the entire year.

25. Drainage facilities shall be designed, constructed, and maintained to accommodate anticipated precipitation and peak surface runoff flows from a 100-year, 24-hour rainstorm event.

26. 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. A minimum of two feet of freeboard shall be maintained in all storm water/sediment containment or percolation ponds.

**Design Criteria**

27. All waste disposal areas, containment structures and drainage facilities shall be designed and constructed under the direct supervision of a California Registered Civil Engineer or a Certified Engineering Geologist, and shall be certified by that individual as meeting the prescriptive standards and performance goals of all state and federal landfill regulations including, but not limited to, CCR
Waste management units, containment structures, and drainage facilities shall be designed, constructed and maintained to limit, to the greatest extent possible, standing water, infiltration, inundation, erosion, slope failure, washout, overtopping, and damage due to natural disasters (e.g., floods with a predicted frequency of once in 100 years, and severe wind storms).

29. Wastes shall not be discharged to new areas (i.e., areas which have not previously received wastes) unless equipped with a containment system, which meets either a. or b. below:

a. A composite liner and a leachate collection and removal system consisting of the following components:
   - A well-prepared subgrade, engineered to support the Landfill and associated structures.
   - Lower Component: a minimum two-foot layer of compacted soil with a hydraulic conductivity of no more than $1 \times 10^{-7}$ cm/sec.
   - Upper Component: a minimum 60-mil high-density polyethylene (HDPE). The upper component must be installed in direct and uniform contact with the lower component.
   - A Leachate Collection and Removal System (LCRS), designed so that leachate drains by gravity to a collection point/sump and is removed through gravity or pumping to a holding tank or sanitary sewer for volume measurement, testing and disposal.
   - A protective soil layer or operations layer shall be placed above the LCRS and liner system. This layer shall be a minimum of 12 inches thick.

b. An engineered alternative liner design, approved by the Executive Officer. Engineered alternative designs must satisfy the performance criteria in 40 CFR Section 258.40(a)(1) and (c), and satisfy the criteria for an engineered alternative to the above prescriptive design, as provided by CCR Title 27, Section 20080(b). Performance of the alternative composite liners’ components, in combination, shall equal or exceed the waste containment capability of the prescriptive design outlined above.

30. Future composite-lined landfill modules not meeting the five-foot groundwater separation requirement [CCR Title 27, Section 20240(c)] will require installation of an under-drain beneath the composite liner. An engineered alternative design plan must be approved by the Executive Officer prior to installation of the underdrain.

31. All Landfill facilities shall be designed and constructed to prevent damage during the maximum probable earthquake.

32. The Discharger shall ensure the integrity of final slopes under both static and dynamic conditions to protect public health and safety and prevent damage to post-closure land uses, roads, structures, utilities, gas monitoring and control systems, leachate collection and control systems to prevent public contact with leachate, and prevent exposure of waste. Slope stability analyses shall be conducted and reported pursuant to the requirements of Division 2, Subdivision 1, Chapter 4, Subchapter 3, Article 4 Section 21750(f)(5). A minimum factor of safety of 1.5 is required for permanent and interim slopes under both static and dynamic conditions. If a factor of safety of 1.5 is not achieved, calculated deformation under seismic loads shall be no greater than 6 inches of landfill slopes and bottom liners and 12 inches for final cover system slopes.
33. A preferential leachate pathway layer shall be constructed so that leachate generated in newly constructed cells placed over unlined areas flows to the lined portion of the Landfill for collection and disposal.

34. The leachate collection and removal system shall:

a. Be designed and constructed to prevent more than 12 inches of static hydraulic head on the liner.

b. Convey to a sump, or other appropriate collection area, all leachate that reaches the liner. The depth of fluid in any collection sump shall be kept at the minimum needed to ensure efficient pump operation.

c. Be designed so that short and long term system performance can be monitored and evaluated [CCR Title 27, Section 20340 (d)].

d. Storage facilities shall have a secondary containment system sized to hold 110 percent of the primary containment system capacity.

e. Be constructed with double lined sumps with leak detection capability.

35. Discharge of condensate or leachate shall comply with the following:

a. Liquids shall be returned to only a waste management unit equipped with a containment system that meets or exceeds the performance standards of CCR Title 27, 40 CFR, Part 258.40(a)(2), or in this Order, whichever is more protective of water quality.

b. Liquids shall 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 attached MRP R3-2006-0018.

c. No discharge of leachate shall occur within 48 hours of any forecasted rain event, during any rain event, or 48-hours after any rain event, unless a site specific Leachate Application Plan is submitted and approved by the Executive Officer.

d. Have an approved alternate method of leachate disposal (e.g., wastewater treatment plant) that is acceptable to the Executive Officer.

Closure

36. All Landfill waste disposal areas that have not reached final fill elevation, but will remain inactive more than one year, must be provided with an Executive Officer-approved long-term intermediate cover. The thickness and permeability of the long-term intermediate cover shall be based primarily on site-specific conditions including, but not limited to length of exposure time; volume of underlying material, permeability, thickness and composition of existing cover; amount of yearly rainfall; depth to groundwater; beneficial uses of underlying groundwater; site-specific geologic and hydrogeologic conditions; and effectiveness of existing monitoring system.

37. Final Landfill configuration shall conform to the contours delineated in Drawing No. 1 of the February 2005 JTD.

38. 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 foundation layer placed over waste, compacted to maximum density obtainable at optimum moisture conditions [CCR Title 27, Section 21090 (a)(1)].
   • For units that have not been equipped with a Subtitle D composite liner system, a low hydraulic conductivity layer, consisting of compacted clay with a hydraulic conductivity of 1x10⁻⁶ cm/sec.
Compacted clay will not be considered for sites with VOC detections in point of compliance wells. In such cases a geosynthetic clay layer or geomembrane will be proposed.

- 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.
- 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 above.

39. All closed Landfill waste management units shall be provided with at least two permanent monuments, installed by a licensed land surveyor, from which the location and elevation of all wastes, containment structures, and monitoring facilities can be determined throughout the post-closure maintenance period. Cumulative waste subsidence and settlement of areas where final cover is installed shall be documented in the annual report.

40. The Discharger shall control vectors to minimize and prevent, to the extent feasible, on and off-site impacts to water quality.

41. Leachate shall be removed from the Landfill to the maximum extent feasible. Leachate removal and disposal shall be in accordance with an Executive Officer-approved Leachate Reduction and Removal Plan.

D. WATER QUALITY PROTECTION STANDARDS

1. Discharge of waste shall not cause the concentration of any Constituents of Concern (COC) or Monitoring Parameter to exceed its respective background value in any monitored media (i.e., soil or groundwater) at any Monitoring Point pursuant to MRP No. R3-2006-0018.


3. The discharge of waste shall not cause a statistically significant difference in water quality over background concentrations or Concentration Limit for each COC or Monitoring Parameter (per MRP No. R3-2005-0018) 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.

4. Discharge of 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. The Point of Compliance is the vertical surface located at the downgradient edge of the waste footprint as shown on Figure 3, and extends vertically down through the uppermost aquifer.

6. Discharge of waste shall not cause radionuclides in groundwater down-gradient of the Point of Compliance to exceed the State Department of Health Services latest recommended Drinking Water
7. The Water Board considers the Discharger to have a continuing responsibility for waste containment, monitoring, and correcting any problems that may arise in the future as a result of this waste discharge. This responsibility continues as long as the waste poses a threat to water quality.

8. Monitoring results are subject to the most appropriate statistical or non-statistical test, as required by the attached MRP No. R3-2006-0018.

9. The Discharger shall, in a timely fashion, install any additional groundwater, soil pore liquid, soil pore gas, surface water, and leachate monitoring devices as required by the Executive Officer.

E. PROVISIONS

General Provisions

1. Order No. 94-62, “Waste discharge Requirements for City of Santa Cruz Class III Landfill, Santa Cruz County,” adopted by the Water Board on November 18, 1994, is hereby rescinded.

2. The Discharger shall comply with "Monitoring and Reporting Program No. R3-2006-0018", as specified by the Executive Officer.

3. The Water Board will review this Order periodically and will revise these requirements when necessary.

4. A Construction Quality Assurance Plan, acceptable to the Executive Officer, must be implemented by a third party (i.e., unrelated to the Discharger, Landfill operator, project designer, contractor) prior to initiating construction of the Landfill’s final cover system or constructing a new waste management unit.

5. Two weeks prior to and during construction of each module (e.g., preparing foundation, installing liner, installing leachate collection and removal system, placing operations layer, etc.), the Discharger shall provide a schedule of construction activities. Schedules shall be updated and provided to Water Board staff on a weekly basis.

6. For newly constructed waste management unit(s), the Discharger must submit Final Documentation verifying construction quality assurance [CCR Title 27, Section 20324(d)(1)(C)].

7. The Discharger shall maintain a copy of this Order at the facility and make it available at all times to regulatory agency personnel and to facility operating personnel (who shall be familiar with its contents).

8. The Discharger shall maintain legible records of the volume and type of all waste discharged at each Unit and the manner and location of discharge. Such records shall be maintained at the facility until the beginning of the post-closure maintenance period. These records shall be available for review by representatives of the Water Board and of the State Water Resources Control 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 Water Board.
9. The Discharger shall be responsible for accurate waste characterization, including determinations of whether or not wastes will be compatible with containment features or other wastes, whether or not wastes are required to be managed as hazardous wastes, whether waste is liquid, and whether waste is inert.

10. The Discharger shall comply with all other applicable provisions of CCR Title 27 and 40 CFR Parts 257 and 258 that are not specifically referred to in this Order. If any applicable requirements overlap or conflict in any manner, the requirement most protective of water quality shall govern in all cases, unless specifically stated otherwise in this Order, or as directed by the Executive Officer.

11. The Discharger shall have a continuing responsibility to ensure protection of usable waters from discharged wastes and from gases and leachate generated by discharged waste during the Landfill’s active life, closure, and post-closure maintenance periods and during subsequent use of the property for other purposes.

12. The Discharger shall maintain waste containment facilities and precipitation and drainage controls, and shall continue to monitor, as appropriate, groundwater, vadose zone, liquid and gas, surface waters, and leachate from waste management units throughout the post-closure monitoring and maintenance period.

13. Methane and other landfill gases, generated as a result of waste disposal, shall be adequately vented, removed from the Landfill, or otherwise controlled to prevent the danger of explosion, adverse health effects, nuisance conditions, and the degradation of water quality.

14. The Water Board will review this Order periodically and will revise these requirements when necessary.

15. Sewage sludge or water treatment sludge with greater than 50 percent moisture content may be discharged to the waste management unit only if all the following criteria are met:
   a. Sludge shall be discharged only to lined modules that have a LCRS, designed so that leachate drains by gravity to a collection point/sump and is removed through gravity or pumping to a holding tank or sanitary sewer for volume measurement, testing and disposal.
   b. A daily minimum solids-to-sludge ratio of 5 to 1, based on weight, shall be maintained when co-disposing sludge with solid waste.
   c. Primary and mixtures of primary and secondary sewage sludge shall contain at least 20 percent solids by weight.
   d. Secondary sewage sludge and water treatment sludge shall contain at least 15 percent solids by weight.

Reporting Provisions

16. All technical and monitoring reports submitted pursuant to this Order are required pursuant to Section 13267 of the California Water Code. Failure to submit reports in accordance with schedules established by this Order and 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 Section 13268 of the California Water Code.

17. Discharger shall notify Water Board staff, within 24 hours by telephone and within seven days in writing, of any noncompliance potentially or actually endangering health or the environment. Any noncompliance that 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 or the Landfill's integrity (i.e., emergency corrective measures). Corrections initiated prior to Executive Officer approval shall be so stated in the written report. The written report shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times or anticipated duration; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. This provision includes, but is not limited to:

a. Violation of a discharge prohibition.
b. Violation of any Water Quality Protection Standard.
c. Slope failure.
d. Liner damage.
e. Leachate seep(s) occurring on, or in proximity to, the Landfill.

18. Reports of compliance or noncompliance, or any progress reports on interim and final requirements contained in any compliance schedule, shall be submitted within 14 days following each scheduled date unless otherwise specified within the Order. A report shall be submitted within 14 days of achieving full compliance.

19. Design reports shall be submitted 180 days in advance of any planned changes in the permitted facility or any activity that could potentially or actually result in noncompliance.

20. The Discharger shall report all changes in usage of daily cover and performance standards within 10 days following the change.

21. The Discharger shall implement all necessary wet weather preparedness measures to ensure discharges to surface waters or groundwater do not occur during the impending rainy season, and ensure all other relevant CCR Title 27 and 40 CFR criteria have been implemented. To ensure the appropriate wet weather measures have been implemented, the Discharger shall submit a report of Wet Weather Preparedness. The report shall detail all preparedness actions taken to comply with this requirement. REPORT DUE DATE: November 1st of each year.

22. The Discharger shall obtain and maintain Financial Assurance Instruments (Instruments), which comply with CCR Title 27 (Sections 22207 [Closure Fund], 22212 [Post-Closure Fund], and 22220 et seq. [Corrective Action Fund]), and 40 CFR parts 257 and 258. The Discharger shall evaluate the cost of Financial Assurance to cover the estimated costs of the worse case reasonably foreseeable release. Upon request, the Discharger shall submit a report on financial assurance for corrective action for the Water Board Executive Officer's review and approval. Every five years after submittal of the initial financial assurance report, or earlier if requested by the Executive Officer, the Discharger shall submit a report, that either validates the Instruments' ongoing viability, or proposes and substantiates any needed changes. The Discharger may combine the three components (Closure, Post-Closure, Corrective Action) of the Instruments into one report to comply with this requirement. The Discharger shall also submit evidence (e.g., an acceptance letter from the California Integrated Waste Management Board—Financial Assurance Division) that a financial assurance instrument(s) is in place for closure, post-closure, and corrective action. The acceptance letter can be included in the Landfills Annual Report to the Executive Officer.

23. For the protection of water quality, the Executive Officer may require partial or final closure of any Waste Management Unit or Landfill area regardless of whether the unit or area has reached final capacity. Such a requirement will be requested in writing and in accordance with CCR Title 27, Section 22190.
24. The Discharger shall submit a Joint Technical Document (JTD) to the Executive Officer pursuant to CCR Title 27, Section 21710. The JTD shall contain, but is not limited to, the following:

a. Information on waste characteristics, geologic and climatologic characteristics of the Landfill and the surrounding region, installed features, operation plans for waste containment, precipitation and drainage controls, and closure and post closure maintenance plans, in accordance with CCR Title 27, Sections 21740, 21750, 21760, and 21769.

b. A completed SWRCB JTD Index, in accordance with CCR Title 27, Section 21585(b), with your JTD addendum.

c. A Discussion of whether, in the Discharger’s opinion, there is any portion of this Order that is incorrect, obsolete, or otherwise in need of revision.

d. Any technical documents needed to demonstrate continued compliance with this Order and all pertinent State and Federal requirements.

e. Detailed information regarding regulatory considerations; design, construction and operating provisions; environmental monitoring; and closure and post-closure.

f. A Fill Sequencing Plan that includes detailed maps. The Fill Sequencing Plan should describe in detail the overall development of the entire Landfill.

g. A detailed description of the lateral and vertical extent of refuse within all existing Landfill Units. It must include an accurate estimate of waste volumes within each existing Landfill fill area (i.e., phases) and an approximation of the remaining volume and years of capacity for each existing phase and all new proposed fill area within currently “Permitted Landfill Boundary.” It must also describe all existing available space within currently permitted Landfill areas (i.e., areas where refuse has been placed in the past, but have not reached final permitted elevation and Landfill Units or portions of Landfill Units where refuse has never been placed).

h. A discussion of any plans or proposals to close or partially close any Landfill Units or portions of Landfill Units, any proposed liner systems and respective design components, any proposed plans for long-term intermediate cover for Landfill areas which may remain inactive for long periods of time (over one year). REPORT DUE DATE: December 31, 2010, or as specified by the Executive Officer.

25. The Discharger shall submit to the Water Board an updated closure and post-closure maintenance plan (Closure Plan). The Closure Plan shall describe the methods and controls to be used to ensure protection of the quality of surface and groundwater during partial and final closure operations and during any proposed subsequent use of the land. The Closure Plan shall include:

a. A description of the final cover, designed in accordance with all applicable State and Federal regulations and the methods and procedures to be used to install the cover.

b. An estimate of the largest waste disposal area (Waste Management Unit) requiring a final cover at any time during the Landfill’s active life.

c. An estimate of the maximum inventory of wastes at the site over the active life of the Landfill.

d. A schedule for completing all activities necessary to satisfy all closure criteria as required by CCR Title 27 and 40 CFR Parts 257 and 258 regulations.

e. An estimate of closure and post-closure maintenance costs.

f. A proposal for a trust fund or equivalent financial arrangement to provide sufficient funding for closure and post-closure maintenance.

g. The amount to be deposited in the trust fund or equivalent financial arrangement each year.

The Closure Plan shall be prepared by or under the supervision of a California Registered Civil Engineer or Certified Engineering Geologist. Updates of the plan are required whenever substantial changes occur or five years has elapsed since the last major revision. The method identified for each
Waste Management Unit closure and protection of the quality of surface and groundwater shall comply with this Order. The Closure Plan report shall be consistent with all applicable state and federal regulations, including CCR Title 27 and 40 CFR Parts 257 and 258. **REPORT DUE DATE: December 31, 2010**, and every five years thereafter.

26. The Water Board considers the Discharger to have a continuing responsibility for correcting any problems that may arise in the future as a result of this waste discharge. This responsibility continues as long as the waste poses a threat to water quality.

27. After suspending the Corrective Action Program measures, the Discharger shall remain in corrective action monitoring until an approved Detection Monitoring Program is established in accordance with CCR Title 27 and has been incorporated into Waste Discharge Requirements. Any time the Executive Officer determines that the Corrective Action Program does not satisfy the requirements of CCR Title 27, the Discharger shall, within 90 days of receiving written notification of such determination, submit an amended Corrective Action Program with needed changes pursuant to Water Code section 13267.

28. The leachate collection and removal system shall be tested annually to demonstrate proper operation. The results of the test shall be compared with previous tests and included in the Annual Monitoring Report.

29. The Discharger shall notify the Water Board in writing of any proposed change in ownership or responsibility for construction or operation of the Landfill in accordance with CCR Title 27, Section 21710 (c)(1). Failure to submit the notice in writing shall be considered a violation of Section 13264 of the Water Code. The written notice 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 Joint Technical Document 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.

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.

30. At any time, the Discharger may file a written request (including appropriate supporting documents) with the Water Board Executive Officer, proposing appropriate modifications to the monitoring and reporting program. The Executive Officer either shall reject the proposal for reasons listed, or shall incorporate it into a revised monitoring and reporting program. The Discharger shall implement any changes in the monitoring and reporting program proposed by the Executive Officer upon receipt of a revised monitoring and reporting program.

31. The Discharger shall notify the Executive Officer at least 180 days prior to beginning any partial or final Landfill closure activities. The notice shall include a statement that all closure activities will conform to the most recently approved Closure Plan and that the Plan provides for closure in compliance with all applicable State and Federal regulations. If there is no approved Closure Plan,
the Discharger must submit a complete Closure Plan at least 240 days prior to beginning any Landfill closure activities.

32. The Water Board shall be allowed, at any time and without prior notification:

a. Entry upon the Landfill or where records must be kept under the conditions of this Order and MRP No. R3-2006-0018.

b. Access to copy any records that must be kept under the conditions of this Order and MRP No. R3-2006-0018.

c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order and MRP No. R3-2006-0018.

d. To photograph, sample, and monitor for the purpose of showing compliance with this Order.

33. Except for data determined to be confidential under Section 13267 (b) of the California Water Code, all reports prepared in accordance with this Order are considered public record and shall be sent to the appropriate contact at the California Integrated Waste Management Board and Monterey County Health Department - Environmental Health Division. All reports shall be signed as follows:

a. For a public agency - by either a principal executive officer or ranking elected official*.

b. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively*.

c. For a corporation - by a principal executive officer of at least the level of vice president*.

d. For engineering reports and monitoring reports - by a California Registered Civil Engineer or Certified Engineering Geologist.

*or their "duly authorized representative."

34. Any person signing a report makes the following certification, whether it is 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."

35. Any person who violates Waste Discharge Requirements and/or who intentionally or negligently discharges waste or causes or permits waste to be deposited where it is discharged into waters of the State is liable for civil and/or criminal remedies, as appropriate, pursuant to Section 13350, 13385, and 13387 of the California Water Code.

36. As provided by CWC Section 13350(a), any person may be civilly liable if that person in violation of a waiver condition or waste discharge requirements, discharges waste, or causes waste to be deposited where it is discharged, into the waters of the State.

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

38. 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.
39. 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 Section 13261, 13263, 13265, 13267, 13268, 13300, 13301, 13304, 13340, 13350].

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

### REPORT AND TASK IMPLEMENTATION DATE SUMMARY

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<td>Financial Assurance Report</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 Water Quality Control Board, Central Coast Region, on May 12, 2006.

___________________________
Executive Officer