

**WORKING DOCUMENT**

**MITIGATION REPORTING AND MONITORING PROGRAM (MRMP) - CITY ONLY ALTERNATIVE  
SUNSHINE CANYON LANDFILL - CITY OF LOS ANGELES  
INCORPORATED AS CONDITIONS OF APPROVAL PURSUANT TO [Q] CONDITIONS NO. A.7**

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.1	EARTH RESOURCES				
M - 4.1.1	Grading Activities				
M - 4.1.1	1	O	LARWQCB CIWMB LEA PW-BOE City BOE	LARWQCB CIWMB LADBS LEA PW-BOE	
M - 4.1.1	2	O	LARWQCB CIWMB LEA LADBS	LARWQCB CIWMB City LEA LADBS PW-BOE	

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MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.1.1	3	During excavation, any unsuitable material encountered below the base grade for the landfill, including alluvium, organic material, and landslide debris, shall be removed. Engineered compacted fill shall be placed in those areas to restore the base grade for liner system construction. Excess material not used immediately for cover material shall be stockpiled onsite for future use. The unsuitable material shall be excavated, a portion at a time, as the working area of the landfill progresses to avoid opening large sections of potentially unstable material. A buffer area (i.e., 50-100 horizontal feet or as deemed appropriate to maintain safe working conditions) shall be used between the active cells receiving waste and areas under excavation. In accordance with CCR Title 14 a certified engineering geologist shall delineate the limits of the unsuitable material and associated "backcuts" to facilitate removals during excavation. Removal shall not occur during the rainy season (October 1 - April 30) or when the ground is saturated unless performed under the direction and specifications of a certified engineering geologist.	O	LARWQCB CIWMB LEA LADBS LADBS	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.1	4	Grading that allows for construction of ancillary facilities outside of the landfill footprint or that has the potential to impact property beyond the boundary of the landfill shall be approved by the Department of Building and Safety.	O	LARWQCB CIWMB LEA LADBS	LARWQCB CIWMB LEA LADBS	
M - 4.1.1	5	All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed project, including provisions for excavation approved by the Department of Building and Safety, City Engineer, City LEA and other Responsible Agencies.	O	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.1	6	Revegetation and erosion control procedures on all exposed slopes shall be implemented. The erosion controls to be implemented at the site shall include soil stabilization measures and revegetation in accordance with the approved revegetation plan as approved by the City Building and Safety Department. Interceptor ditches shall be designed to divert storm runoff to a sedimentation basin.	O	LARWQCB CIWMB LEA LADBS	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.1	7	Prior to the initiation of grading activities, the project proponent shall undertake, if necessary, reabandonment procedures as required by the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources.	O	California Dept. of Conservation	California Dept. of Conservation	
M - 4.1.2		Geologic Hazards - Mudflow and Landslide (including lithologic history)				

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M - 4.1.2	8	When excavating for the landfill operation, if a landslide is encountered, all material constituting that landslide shall be removed. Excess landslide material not used immediately for cover material shall be stockpiled onsite for future use. If necessary, the landslide area shall be excavated a portion at a time to avoid opening large sections of potentially unstable material. A buffer area shall be maintained between the active landfill cells receiving waste and areas under excavation to remove overburden soils, landslide debris, and weathered bedrock. A qualified geologist shall delineate the limits of the landslide during excavation. Landslide removal shall not commence when the ground is saturated, unless removed under the direction and specifications of a certified engineering geologist.	O	LARWQCB CIWMB LADBS PW-BOE	LARWQCB CIWMB LADBS PW-BOE	
M - 4.1.2	9	Areas of excavation and areas of loose soil (i.e., around haul roads, etc.) shall be stabilized to prevent erosion before the onset of the rainy season.	O	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.3		Geologic Hazards – Subsidence Refer to Section 4.1.2, Geologic Hazards - Mudflow and Landslide.				
M - 4.1.4		Geologic Hazards – Seismicity				
M - 4.1.4	10	The landfill facility shall be designed and constructed to meet CCR, Title 14, Division 7, Chapter 3, Article 7.8, § 17777 (Final Site Face) and CCR, Title 23, Division 3, Chapter 15, Article 4, § 2547 (Seismic Design) requirements "to withstand the maximum probable earthquake without damage to the foundations or to the structures which control leachate, surface drainage, erosion, or gas." Design consideration shall include strong ground shaking and secondary ground rupture. In addition, the project proponent shall comply with RCRA, Subtitle D, 40 CFR Part 258, Subpart B, § 258.13 (Fault Areas) which states "new municipal solid waste landfill units and lateral expansions shall not be located within 200 feet (60 meters) of a fault that has had displacement in Holocene time . . ." The landfill design and seismic analysis will be reviewed by the RWQCB.	C	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.4	11	An operations checklist shall be used by a registered engineering geologist for surveys following all earthquake events measuring 5.0 on the Richter Scale or greater near the project site. A comparison of operating parameters and site conditions before and after major earthquake events shall be made to verify that systems are operational as designed. Final designs for major engineered structures shall be based on the results of the detailed stability analyses of potential seismic events.	After earthquake events of 5.0 magnitude or greater.	SCAQMD LARWQCB CIWMB LADBS PW-BOE	SCAQMD LARWQCB CIWMB LADBS PW-BOE	

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M - 4.1.5	12	Geologic Hazards - Liquefaction  Alluvium in the canyon bottoms beneath the footprint of the waste containment system and beneath ancillary structures shall be excavated and, if necessary, replaced with compacted structural fill during construction. A qualified geologist shall be onsite during construction activities to observe removal and replacement of alluvium and verify that all alluvium within the landfill footprint has been removed prior to placement of any compacted fill or construction of any containment system elements.	C	LARWQCB CIWMB LADBS PW- BOE	SCAQMD LARWQCB CIWMB LADBS PW-BOE	
M - 4.1.5	13	The landfill facility shall be designed and constructed in accordance with RCRA, Subtitle D, 40 CFR, Part 258, Subpart B, § 258.14 (Unstable Areas) so that there would be no liquefaction related impacts.	C	SCAQMD LARWQCB CIWMB LADBS PW-BOE	SCAQMD LARWQCB CIWMB LADBS PW-BOE	
M - 4.1.5	14	The landfill facility shall be designed and constructed in accordance with CCR, Title 23, Division 3, Chapter 15, Article 3, § 2530(d) (Classification and Siting Criteria), which requires that "all containment structures at waste management units shall have a foundation or base capable of providing support for the structures and capable of withstanding hydraulic pressure gradients to prevent failure due to settlement, compression, or uplift as certified by a registered civil engineer or certified engineering geologist."	C	LARWQCB CIWMB LEA LADBS PW- BOE	SCAQMD LARWQCB CIWMB LADBS PW- BOE	
M - 4.1.6		Geologic Hazards - Slope Stability				
M - 4.1.6	15	Final maximum refuse slope gradient at the site shall be no steeper than 2H:1V (horizontal to vertical) for the landfill.	C	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.6	16	Final cut and fill slopes shall have an overall slope gradient no steeper than 1.5H:1V.	C	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	
M - 4.1.6	17	Final slopes shall be engineered to have a static factor of safety of at least 1.5.	C	LARWQCB CIWMB LEA LADBS PW-BOE	LARWQCB CIWMB LEA LADBS PW-BOE	

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M - 4.1.6	18 Survey monuments shall be installed around the perimeters of the outer fill areas at points where they would not be subject to disturbance by landfill development and marking the 500 foot setback from the more restrictive zone. The exact spacing, location, and characteristics of the survey monuments shall be submitted to and approved by the City Local Enforcement Agency (LEA).	C	LARWQCB CIWMB LEA PW-BOE	LARWQCB CIWMB LEA PW-BOE	
M - 4.2	4.2 AIR QUALITY				
M - 4.2.1	4.2.1 Existing Conditions Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.3	4.2.3 Criteria Air Pollutants Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.4	4.2.4 Ambient Air Quality Standards and Annual Statistics Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.5	4.2.5 Air Quality Management Plan  Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.6	4.2.6 Proposed Project Overview Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.7	4.2.7 Site Preparation/Construction Phase Refer to Section 4.2.11, Construction, within this table.				
M - 4.2.8	4.2.8 Air Quality Operational Phase (Long-Term) No mitigation measures would be required.				
M - 4.2.9	4.2.9 Health Risk Analysis Refer to Section 4.2. 12, Operations, within this table.				
M - 4.2.10	4.2.10 Project Consistency with Applicable Plans Refer to Section 4.2. 12, Operations, within this table.				

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M - 4.2.11	4.2.11 Construction				
M - 4.2.11	19 The following mitigation measures will reduce emissions to the maximum extent reasonably feasible. a. The project proponent will maintain equipment in tune per manufacturer's specifications. b. The project proponent will use catalytic converters on gasoline-powered equipment. c. The project proponent will retard diesel engine injection timing by 2 degrees. d. High-pressure fuel injectors will be installed. e. Heavy equipment will use reformulated, low-emission diesel fuel. f. The project proponent will substitute electric and gasoline-powered equipment for diesel-powered equipment where feasible. g. Where applicable, equipment will not be left idling for prolonged periods.  COMMENT: Mitigation Measure 4.2.11 - Nos. 19, 24 and 25 Air Quality will be addressed in the annual report to the Technical Advisory Committee (TAC).	C	LEA DCP	DCP	IND CONSULT
M - 4.2.11	19 h. The project proponent will curtail (cease or reduce) construction during periods of high ambient pollutant concentrations (i.e., Stage II smog alerts).	C	SCAQMD	SCAQMD	
M - 4.2.11	20 Daily watering of active construction areas, active soil stockpiles, and all traveled unpaved roads shall be performed to minimize dust lofting from construction disturbances. Construction areas will also receive a soil stabilization (sealant) product if they are to be left unattended for periods in excess of 5 days and control is required.	C	SCAQMD LEA LADBS	SCAQMD LADBS	
M - 4.2.11	21 Wind speed shall be continually monitored using onsite anemometers. Excavation within construction areas shall be halted when the 15-minute average wind speed exceeds 15 mph or when the instantaneous wind speed exceeds 25 mph.	C	SCAQMD	SCAQMD	
M - 4.2.11	22 Graded areas shall be watered as necessary to reduce dust emissions.	C	SCAQMD LEA	SCAQMD	
M - 4.2.11	23 Disturbed areas shall be revegetated with an interim ground cover as specified in the proposed revegetation program. Excavation will proceed in a manner to reduce the amount of graded areas at any given time.	C	SCAQMD	SCAQMD	

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M - 4.2.12	Operations				
M - 4.2.12	24				
	<p>Construction Equipment</p> <p>a. The project proponent will maintain equipment in tune per manufacturer's specifications.</p> <p>b. The project proponent will use catalytic converters on gasoline-powered equipment.</p> <p>c. The project proponent will retard diesel engine injection timing by 2 degrees.</p> <p>d. High-pressure fuel injectors will be installed.</p> <p>e. Heavy equipment will use reformulated, low-emission diesel fuel.</p> <p>f. The project proponent will substitute electric and gasoline-powered equipment for diesel-powered equipment where feasible.</p> <p>g. Where applicable, equipment will not be left idling for prolonged periods.</p>	O	LEA DCP	DCP	IND CONSULT
M - 4.2.12	24h.				
	<p>h. The project proponent will curtail (cease or reduce) construction during periods of high ambient pollutant concentrations (i.e., Stage II smog alerts).</p>	O	SCAQMD	SCAQMD	
M - 4.2.12	25a.				
	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>a. Refuse trucks shall be maintained in proper tune. Trucks observed to emit excessive amounts of smoke (particulate matter) shall either be tuned up or repaired, as applicable.</p>	O	LEA SCAQMD	SCAQMD	
M - 4.2.12	25b.				
	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>b. Where applicable, high-pressure fuel injector nozzles shall be used, and diesel engine timing shall be retarded by 2 degrees.</p>	O	LEA DCP	DCP	IND CONSULT
M - 4.2.12	25c.				
	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>c. Using a progressive fee schedule, the project proponent shall encourage trucks to carry full loads.</p>	O	LEA DCP	DCP	DCP (Docs & signage at scale house)

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M - 4.2.12 25d.	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>d. The project proponent shall encourage trucking to be performed during off-peak hours. This shall be accomplished through coordination of deliveries with the transfer stations that supply refuse, restrictions in the hours of operation, and/or a fee schedule that penalizes haul trucks arriving during peak congestion periods. This will reduce emissions by increasing truck speeds and eliminating prolonged idling in traffic.</p>	O	DCP	DCP	DCP (copy of memo to BFI vendors)
M - 4.2.12 25e.	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>e. When operating onsite, trucks shall not be left idling for periods in excess of 5 minutes.</p>	O	LEA DCP	DCP	DCP (copy of memo to BFI vendors)
M - 4.2.12 25f.	<p>Refuse Trucks</p> <p>The following measures will be applied to the project proponent's operated trucks that utilize the project site.</p> <p>f. Private owner-operators shall be warned that, if their trucks emit excessive amounts of smoke as determined by scale house workers, they will not be allowed future access to the landfill facility.</p>	O	LEA DCP	DCP	DCP (Letter to vendor & sign)
M - 4.2.12 26a.	<p>Truck Travel and Fugitive Dust Emissions</p> <p>a. To minimize fugitive dust emissions, the access roadways shall be paved, as necessary, and haul roads to the working face areas shall be hard packed and or covered with a crushed stone layer. Paved and/or crushed stone roadways shall extend up to new active fill areas as development of the landfill progresses.</p>	O	SCAQMD	SCAQMD	
M - 4.2.12 26b.	<p>Truck Travel and Fugitive Dust Emissions</p> <p>b. Curbs and gutters shall be used. At least twice daily watering or wet sweeping of paved roads to remove windblown surface dust shall occur. AP-42 assigns a control efficiency of 50 percent for twice weekly cleaning of industrial paved roads. With twice daily cleaning, a control efficiency in excess of 90 percent is predicted.</p>	O	SCAQMD	SCAQMD	
M - 4.2.12 26c.	<p>Truck Travel and Fugitive Dust Emissions</p> <p>c. For unpaved clay roads, mitigation shall include an SCAQMD-approved chemical dust suppressant with a manufacturer's demonstrated control efficiency in excess of 90 percent shall be regularly applied to inactive areas, during windy periods. Note that this control efficient is less than (i.e., more conservative than) the 95 percent value used at the El Sobrante Landfill.(Draft South Coast Air Quality Management District Consultation No. 4, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., May 2, 1997).</p>	O	SCAQMD	SCAQMD	



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M - 4.2.12	26d.	Truck Travel and Fugitive Dust Emissions d. For unpaved crushed stone covered roads, mitigation shall include the use of a crushed stone topcoat in addition to the regular application of a SCAQMD-approved chemical dust suppressant and subsequent watering, a control efficiency in excess of 95 percent is predicted.	O	Project Site Manager SCAQMD	SCAQMD	
M - 4.2.12	27a.	Heavy Equipment Operations a. Operations shall be restricted to encompass no more than a 10-acre active working face area.	O	SCAQMD	SCAQMD	
M - 4.2.12	27b.	Heavy Equipment Operations b. The disturbed area (subject to the surface erosion) shall be reduced from 40 acres to 20 acres when operations occur south of the smaller former filling area of the existing inactive City Landfill.	O	SCAQMD	SCAQMD	
M - 4.2.12	28a.	Site Erosion a. To the extent technically feasible, material excavated from one portion of the project site shall be used as daily cover material in an adjacent area to minimize travel distances for such cover material.	O	SCAQMD	SCAQMD	
M - 4.2.12	28b.	Site Erosion b. Subject to approval by the California Integrated Waste Management Board (CIWMB), filling in each active area shall be prolonged through the utilization of a 20-foot maximum cell height. This would reduce the area of excavation and minimize the disturbances to the landfill, thereby providing an effective control of fugitive dust.	O	CIWMB LEA	CIWMB LEA	
M - 4.2.12	28c.	Site Erosion c. A temporary vegetation cover shall be established on all slopes that are to remain inactive for a period longer than 180 days.	O	SCAQMD	SCAQMD	
M - 4.2.12	28d.	Site Erosion d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seed during revegetation, mulch, and fertilizers in-place until grasses become established and stabilize on the landfill surface.	O	SCAQMD	SCAQMD	
M - 4.2.13		Odor Impacts				

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M - 4.2.13 29	The natural biological processes that generate odors in a landfill through anaerobic decomposition cannot be prevented or avoided. However, the LFGs shall be prevented from escaping to the atmosphere through the use of control measures. These measures include using daily and intermediate cover material over deposited wastes, filling any surface cracks with clean dirt as necessary, and extracting LFG through the use of an LFG collection and recovery system and destroying collected gases by combustion.	O	SCAQMD LEA	SCAQMD LEA	
M - 4.2.13 30	Operational techniques shall be utilized to control odor sources at the landfill. The size of the working face shall be limited so that the area of waste exposed to the atmosphere is kept to a minimum.	O	SCAQMD LEA	SCAQMD LEA	
M - 4.2.13 31	Solid waste shall be compacted within 1 hour of its arrival at the working face.	O	LEA	LEA	
M - 4.2.13 32	The LFG collection and recovery system shall be installed in phases as each portion of the landfill site is filled. The final system shall contain a network of gas extraction wells, collection system piping, and flaring facilities. Because the LFG generation begins at lower levels of volume and increases during the landfill site life, the gas will be flared initially until sufficient quantities are available for processing into electricity.	O	SCAQMD LEA	SCAQMD LEA	
M - 4.2.13 33	If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of additional dirt daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.	O	SCAQMD LEA	SCAQMD LEA	

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M - 4.2.13 34	<p>To ensure that odors are kept to a minimum, the following odor/LFG monitoring program shall be implemented for the proposed landfill project. The monitoring program shall comply with the requirements of SCAQMD Rule 1150.1 and include:</p> <p>a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or which ever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.</p> <p>b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 50 ppm.</p> <p>c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.</p> <p>d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.</p> <p>e. Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.</p>	O	SCAQMD LEA	SCAQMD LEA	
M - 4.2.13 35	<p>Landfill gas flares shall be below the adjacent ridges (unless otherwise required by the South Coast Air Quality District). Flaring systems shall be sited as required by the SCAQMD and constructed using BACT. The flames shall be totally contained within the stack. Flame arresters shall be provided to the satisfaction of the City Building and Safety Department. To the extent technically and economically feasible, gas recovered at the landfill site shall be converted to energy or developed for other beneficial uses rather than flared.</p>	O	SCAQMD LADBS LAFD	SCAQMD LADBS LAFD	
M - 4.3	SURFACE AND GROUNDWATER				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.3.1	Surface Water				
M - 4.3.1	36	To ensure that infiltration of surface water into the closed landfill cells is minimized, surface runoff shall be intercepted and diverted around the landfill. The method of diversion used at the project site shall include the use of lined Interceptor ditches placed along the edges of the landfill areas. This system of ditches shall flow into monitored sedimentation basins. After sediment content has been reduced, surface waters shall flow into the existing flood control channel directly east of the project site entrance.	C	LARWQCB CIWMB LEA LADBS (construction only) PW-BOE	LARWQCB CIWMB LEA LADBS (construction PW-BOE)
M - 4.3.1	37	As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, § 2533(C), and County of Los Angeles Public Works Department, Flood Control Division requirements.	C	LARWQCB CIWMB PW-BOE LADBS (construction only)	LARWQCB CIWMB LEA PW-BOE LADBS (construction only)
M - 4.3.1	38	Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channelized, and conveyed into Sedimentation Basin A. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.	O	LARWQCB CIWMB LEA PW-BOE	LARWQCB CIWMB LEA PW-BOE
M - 4.3.1	39	As filling operations progress upward in elevation and laterally across the canyon, both permanent and temporary drainage facilities shall be used to provide appropriate drainage protection. The lower elevation portions of the landfill working face shall be placed under final cover as soon as final grade is attained, and bench ditches shall be installed that will connect to adjacent, permanent perimeter ditches. These ditches shall connect directly to the temporary diversion drainage ditches that will protect the active landfill areas from natural surface runoff.	O	LARWQCB CIWMB LEA PW-BOE	LARWQCB CIWMB LEA PW-BOE
M - 4.3.1	40	In order to monitor the effectiveness of those measures designed to prevent pollution from entering the offsite stormwater system, the project proponent shall be required to apply for coverage under the SWRCB's General Construction Activities Stormwater Permit Programs.	O	LARWQCB CIWMB PW-BOE	LARWQCB CIWMB PW-BOE

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M - 4.3.1 41	The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements.	O	LARWQCB PW-BOE	LARWQCB CIWMB PW- BOE	
M - 4.3.1 42	Surface water quality shall be monitored by collecting water samples from the sedimentation basins to ensure that water quality protection standards (contaminant levels) as determined for the site by the LARWQCB are not exceeded.	O	LARWQCB CIWMB PW-BOE	LARWQCB CIWMB PW- BOE	
M - 4.3.1 43	Sediment shall be cleaned out of the sedimentation basins after every significant storm.	O	LARWQCB CIWMB LEA PW-BOE	LARWQCB CIWMB LEA PW- BOE	
M - 4.3.1 44	The final landfill cover shall be compacted and graded with a minimum 3-percent gradient to preclude percolation of rainwater and direct surface water runoff away from the landfilled refuse and into drains that ultimately discharge into the monitored sedimentation basins.	O	LARWQCB CIWMB LEA PW-BOE	LARWQCB CIWMB LEA PW-BOE	
M - 4.3.1 45	An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipments and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in stormwater runoff.	O	LARWQCB CIWMB LEA PW-BOE LADBS	LARWQCB CIWMB PW- BOE LADBS	
M - 4.3.1 46	A preventive maintenance program would be implemented by the project proponent, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches; rip-rap; berms and dikes; dust control; silt fences; diversion grading; and pavement surfaces. Each system and piece of stationary equipment would be inspected monthly. Procedures for inspection would vary, due to the piece of equipment or system. However, the major elements of the inspection program would include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units. A summary report of these monitoring results and the corrective actions taken will be disseminated in each newsletter with a more detailed report on the web site and in the annual report.	O	LARWQCB CIWMB PW-BOE	LARWQCB CIWMB PW-BOE	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.3.2	Groundwater				
M - 4.3.2 47	In compliance with the Resource Conservation and Recovery Act (RCRA), Subtitle D, 40 CFR, Part 258, Subpart D, § 258.40 (Design Criteria), the proposed City/County Landfill shall install a composite liner system consisting of two components: (1) the upper component shall consist of a minimum 30-mil flexible membrane liner (FML) and (2) the lower component shall consist of a low-permeability soil layer equivalent to at least a 2-foot layer of compacted low-permeability soil with a hydraulic conductivity of no more than 1H 10 <sup>-7</sup> centimeters per second. If an FML component consisting of high-density polyethylene is utilized, it shall be at least 60 mils thick. If a thinner soil barrier layer of lower permeability is utilized, it shall have equal or superior containment capability. The FML component shall be installed in direct and uniform contact with the underlying low-permeability soil component. In addition, the landfill shall have a LCRS that shall consist of either a granular layer 1-foot minimum in thickness or a geosynthetic alternative with an equivalent flow capacity, and a minimum 2 foot thick protective soil cover over which refuse will be placed. There shall also be a protective toe berm at the landfill terminus.	C	LARWQCB CIWMB LEA	LARWQCB	
M - 4.3.2 48	In accordance with RCRA Subtitle D, 40 CFR, Part 258, the composite liner system shall be placed under the entire landfill footprint, including the canyon bottom and side slopes. Design details of each site-specific liner system that shall be constructed shall be described in detail in the project proponent's ROWD for the landfill facility. The liner systems shall be constructed and field tested in accordance with strict Quality Assurance/Quality Control (QA/QC) procedures pursuant to criteria submitted to and approved by the LARWQCB prior to construction.	C	LARWQCB CIWMB LEA	LARWQCB	
M - 4.3.2 49	Areas of natural groundwater seepage shall be intercepted by the installation of a subgrade gravel drainage blanket. A series of underdrains shall be placed in areas where seeps and springs have been identified, and they shall collect and convey any water from these sources to the sedimentation basin. In the event any chemical constituents are in the seep water, the seep waters will be sampled, analyzed, collected, and then sent either to the onsite leachate treatment facility or offsite for proper treatment and disposal. The nature and the source of the seep would be investigated including additional sampling and laboratory testing.	C	LARWQCB CIWMB LEA LADBS	LARWQCB	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.3.2	50	The LCRS shall be installed at the base and side slopes of the landfill. This system shall be designed and installed to collect generated leachate for disposal consistent with LARWQCB requirements. The collection system shall consist of a filter rock blanket embedded with a system of collection pipes or a geosynthetic alternative that collects and transports the fluid to a holding tank. In accordance with RCRA, Subtitle D, 40 CFR, Part 258, the collection systems shall be designed to limit the hydraulic head on the liner to less than 12 inches. Collection pipes shall be sized and spaced to reduce the hydraulic head in the leachate collection system as specified in WDRs. Leachate shall be recovered and treated onsite. The treated leachate shall be sampled prior to discharge from the holding tank in accordance with the WDRs to determine suitability for reuse onsite per LARWQCB requirements. Summary results of this sampling shall be disseminated in the newsletter with more detailed reporting on the web site and in the Annual Report.	C	LARWQCB CIWMB LEA LADBS	LARWQCB	
M - 4.3.2	51	Final design and operating conditions for the leachate removal and treatment system shall be as specified by the LARWQCB in the proposed landfill's WDRs. The LCRS shall be designed and installed in accordance with CCR, Title 23, Division 3, Chapter 15, Article 4, § 2543 (Leachate Collection and Removal Systems), which requires that the LCRS be designed, constructed, maintained, and operated in a manner that collects and removes twice the maximum anticipated daily volume of leachate from the waste management unit.	C	LARWQCB CIWMB LEA	LARWQCB	
M - 4.3.2	52	A gas collection layer shall be placed beneath the liner system where it overlies the existing inactive landfill to mitigate the potential for LFG migration.	C O	SCAQMD LARWQCB CIWMB LEA	SCAQMD LARWQCB	
M - 4.3.2	53	The existing groundwater monitoring wells located within the City portion of Sunshine Canyon shall continue to be monitored during the development of the proposed project. The monitoring system may be revised as construction progresses in the areas where wells are located as approved by the LARWQCB. Summary of the quarterly water monitoring reports shall be disseminated in the newsletter with more detailed reporting on the web site and in the Annual Report.	C	LARWQCB CIWMB	LARWQCB	
M - 4.3.2	54	A preliminary closure/postclosure plan shall be provided as part of the operating permit for the landfill. Closure regulations are contained in the CCR, Title 23, Division 3, Chapter 15, Article 8 (Closure and Postclosure Maintenance), § 2580 (General Closure Requirements) et seq. Completion of landfilling operations will occur once final approved elevations are reached.	C O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.3.2 55	The design, operation, and final closure of the landfill project shall be monitored by the City LEA, CIWMB, and LARWQCB to ensure that the landfill will not create significant environmental impacts to local or regional water supplies.	C O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	
M - 4.3.2 56	Application of daily, intermediate, and final covers in accordance with applicable regulatory requirements shall aid to restrict leachate formation by inhibiting the infiltration of water into the landfill waste prism.	C O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	
M - 4.3.2 57	Dust control water shall be applied to wet only the upper soil surface.	O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	
M - 4.3.2 58	The project shall be operated as a Class III landfill and shall not accept hazardous materials or liquid waste. Further restrictions will be identified in the future WDRs required prior to project development.	O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	
M - 4.3.2 59	Underground fuel storage tanks will be installed, monitored and inspected in compliance with CCR Title 23, Division 3, Chapters 16 and 17 and City of Los Angeles Municipal Code Sections 57.31.34 through 57.39.18. Underground tanks would be double-walled and have sufficient secondary containment and a leak interception and detection system to prevent fluid migration.	O	LAFD	LAFD	
M - 4.3.3	Flood Hazard/ Mudflow Hazard  Refer to Section 4.3.1, Surface Water within this table.				
M - 4.4	4.4 BIOLOGICAL RESOURCES				
M - 4.1.1	Vegetation and Wildlife Habitat				
M - 4.4.1 60	Venturan Coastal Sage Scrub A detailed conceptual mitigation plan shall be prepared by the project proponent and contain specific information on planting, maintenance, and monitoring. A revegetation plan, that includes Coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.	O	DCP	DCP	DCP IND CONSULT



MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.4.1	61	Venturan Coastal Sage Scrub Surface soils and seed source will be gathered from areas of the project site and spread within onsite mitigation areas.	O	DCP	DCP	DCP IND CONSULT
M - 4.4.1	62	Slender Mariposa Lily A conceptual mitigation plan for transplanting relocated lilies shall be developed by consulting biologists. That plan shall describe transplantation techniques, monitoring, and provide data required by Responsible Agencies during a 5-year monitoring period.	O	CDFG	CDFG	DCP
M - 4.4.1	63	San Diego Horned Lizard Impacts on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.	O	CDFG	CDFG	DCP
M - 4.4.1	64	California Gnatcatcher Surveys shall be conducted for California gnatcatchers prior to onsite grading to determine the status of this species within development areas. Surveys shall be conducted in accordance with USFWS protocol, and if present, a Section 10(a) permit from USFWS would be obtained by the project proponent. If grading activities occur during the nesting season (i.e., March through July), a federally permitted biologist will survey areas of project development to determine if the species is present. If California gnatcatchers are present, onsite grading activities shall cease until USFWS officials are notified. Either additional coastal sage scrub restoration or the purchase of suitable offsite habitat will be required, if California gnatcatchers are found onsite.	PC Prior to onsite construction grading.	CDFG	CDFG	DCP
M - 4.4.1	65	Least Bell's Vireo Surveys shall be conducted for least Bell's vireo prior to onsite grading to determine the status of this species within development areas. Surveys shall be conducted in all areas of potential habitat. If this species is present onsite, a Section 10(a) permit from USFWS would be obtained by the project proponent. If grading activities occur during the nesting season (i.e., April through July), a biologist will survey areas of project development to determine if the species is present. If present, onsite grading activities shall cease until USFWS officials are notified.	PC Prior to onsite construction grading.	CDFG	CDFG	DCP
M - 4.4.1	66	Western Burrowing Owl Preconstruction surveys shall be conducted by a consulting biologist at least 30 days prior to project grading to determine if the species is within the project site. If surveys indicate the presence of western burrowing owls, a relocation program shall be implemented.	PC Prior to onsite construction grading.	CDFG	CDFG	DCP

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.4.1 67	<p>Migratory Bird Treaty Act</p> <p>To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e., March 15 to August 1). If vegetation clearing needs to occur, surveys shall be conducted by biologists to determine active migratory bird nests. All active migratory bird nests shall be protected until the young become independent.</p>	PC Prior to onsite construction grading.	CDFG	CDFG	DCP
M - 4.4.1 68	<p>Raptor Nests</p> <p>If habitat removal is proposed during the raptor breeding season (i.e., March to July), a survey shall be conducted for active nesting areas. If active nests are found, no construction activity shall take place within 500 feet of an active nest, until the young have fledged. The 500-foot perimeter around each active nest shall be fenced. Trees containing nests shall only be removed during the non-breeding season.</p>	PC Prior to onsite construction grading.	CDFG	CDFG	DCP
M - 4.4.2	Wetlands and Riparian Habitat				
M - 4.4.2 69	<p>Offsite Mitigation Sites</p> <p>Potential candidate mitigation sites have been identified by the project proponent in conjunction with resource agencies for consideration to compensate for impacts on riparian and wetland resources as a result of project development. These sites include Bull Creek, Bee Canyon and East Canyon, which are located proximate to the project site. Prior to the development of any detailed mitigation plans and drawings, the final selection will be determined cooperatively by the CDFG, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.</p>	O	ACOE CDFG	ACOE CDFG	DCP
M - 4.4.2 70	<p>Purchasing Wetland Credit</p> <p>If a potential candidate site is unavailable, the project proponent would purchase wetland credit through an established mitigation bank. The project proponent would be required to pay an amount established by the mitigation bank developer (i.e., public, non-profit, or private entity) as compensatory mitigation.</p>	C	ACOE CDFG	ACOE CDFG	DCP (if applicable)
M - 4.4.2 71	<p>Funding of an Invasive Species Eradication Program</p> <p>Under the direction of the Corps, the project proponent would seek authorization under Regional General Permit No. 41, which would allow the mechanized removal of invasive, exotic plants (e.g., giant reeds [Arundo donax] and salt cedar [Tamarix spp.]) from waters of the U.S., including wetlands within the jurisdiction of the Los Angeles District of the Corps.</p>	C	ACOE	ACOE	DCP (if applicable)

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.4.3	Native and Nonnative Tree Resources				
M - 4.4.3	72 Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallon container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing trees to grow to specimen size in the field. A specimen-size tree shall be defined as a 15 gallon tree with a minimum trunk caliper of 1 inch measured 1 foot above ground. All mitigation trees shall be specimen size within 1 year after tree removal.	O	DCP IND CONSULT PW-ST TREE (oaks)	DCP PW-ST TREE (oaks)	PW-ST TREE (oaks) DCP IND CONSULT
M - 4.4.3	73 Nonnative tree species shall be replaced at a 2:1 ratio, consisting of 3-gallon Coast live oak trees. A total of 100 24-inch box and 25 36-inch box size Coast live oak trees shall be planted in areas identified by the City. These trees shall be natural in form. The total mitigation tree count obtained using the 5:1 replacement ratio, shall be reduced by 125 trees to account for the inclusion of these larger trees.	O	PW-ST TREE	PW-ST TREE	DCP PW-ST TREE
M - 4.4.3	74 Mitigation tree planting shall occur within the 100± acre open space buffer area located south of the existing inactive landfill. Appropriate planting locations shall be selected within the buffer area based on soil type, steepness of the slope, and aspect (i.e., location and or direction of the sun).	O	DCP IND CONSULT	DCP	DCP
M - 4.4.3	75 Prior to tree planting, the mitigation site shall be prepped to create an environment favorable for native and nonnative tree growth and survival. The initial step in tree planting is to clear away unwanted grass, weeds, or brush. A minimum 3-foot radius of vegetation shall be cleared around the planting location. All planting holes shall be dug to a minimum depth of 24 inches. If soil conditions cannot accommodate the minimum depth, planting holes shall be relocated to a more suitable location. Trees will be spaced 15 to 20 feet in a random, nongeometric pattern. Row or grid spacing will be avoided to provide a natural look to the mitigation planting.	O	DCP IND CONSULT	DCP	DCP IND CONSULT
M - 4.4.3	76 A poultry wire screen with 1-inch-diameter holes shall be installed around the outside wall of the tree planting hole and folded closed on the bottom. The screen shall extend downward to enclose the root ball of the tree that will protrude 1 foot above final grade.	O	DCP IND CONSULT	DCP	DCP IND CONSULT
M - 4.4.3	77 Backfill material shall be used for planting material and shall consist of loose friable soil. The planting shall be backfilled to a depth that allows the root crown of the plant to be even with or slightly higher than the surrounding grade. All planting locations shall be preirrigated to ensure that moisture levels are at or near capacity.	O	DCP IND CONSULT	DCP	DCP IND CONSULT

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.4.3	78				
	Prior to tree planting, all containers shall be thoroughly soaked. Once at the mitigation site, trees shall not be removed from their containers until all site preparation work has been completed. The wire cage shall be installed around the planting hole, and backfill material shall be filled to one-half the depth of the root wad. A 27-gram Agriform fertilizer tablet shall be placed approximately 1 inch from the root wad. Backfilled soil shall be tamped and soaked to remove any air pockets.	O	DCP IND CONSULT	DCP	DCP
M - 4.4.3	79				
	Following tree planting, the area shall be mulched with either wood chip or recycled green waste. The mulch shall be applied in an even layer approximately 6 inches or more in thickness.	O	DCP IND CONSULT	DCP	DCP IND CONSULT
M - 4.4.3	80				
	Drip irrigation shall be provided for all planted trees to ensure adequate growth and allow year-round planting. The irrigation system shall include a liquid fertilizer injection system to maintain optimum plant health and growth.	O	DCP IND CONSULT	DCP	DCP IND CONSULT
M - 4.4.3	81				
	The irrigation system shall utilize plastic polyvinyl chloride piping as its main supply lines. Distribution lines shall consist of ½-inch-diameter polyethylene drip tubing. Water shall be delivered to the plants via conventional drip spot emitters. Vortex emitters rated at 1 to 3 gallons per hour shall be used for the emitters. All irrigation water shall be filtered through a "Y" filter containing a 150 mesh screen. The irrigation systems shall be controlled automatically with remote battery-powered controllers and electrical irrigation valves. Watering frequency and duration shall be adjusted as necessary, depending on soil condition, weather, and plant requirements. To assure successful establishment and survival of the mitigation trees, a 3-year monitoring and maintenance program shall be implemented. Each year the mitigation planting shall be monitored for growth and survival.	O	DCP IND CONSULT	DCP PW-ST TREE	DCP IND CONSULT
M - 4.4.3	82				
	An annual monitoring report shall be prepared and submitted to the City Department of Public Works, Street Tree Division by the project proponent. This report shall detail the growth and survival record for each mitigation tree planted. The report will provide an accounting of the number of trees required for mitigation versus the number of qualifying trees planted. Maintenance recommendations will be included in the annual report.	O	PW-ST TREE	PW-ST TREE	DCP PW-ST TREE
M - 4.5	NOISE				
M - 4.5.1	Construction Noise Impacts				
	Sensitive land uses would not be impacted by project construction; therefore, no mitigation measures would be required.				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.5.2	Operational Noise Impacts				
M - 4.5.2	83				
	Landfilling operations shall be limited to the hours of 6:00 a.m. to 6:00 p.m., Monday through Friday, and from 7:00 a.m. to 2:00 p.m. on Saturday. However, the landfill entrance gate shall be open to waste-hauling vehicles at 5:00 a.m., Monday through Friday, and at 7:00 a.m. on Saturday to provide for truck and vehicle queuing. Because of the proximity of the landfill site to residential areas, citizens, small commercial, and private users of the landfill shall be encouraged by the project proponent (e.g., onsite signage, flyers, mailers) to use alternate routes (other than Balboa Boulevard).	O	LEA	LEA	DCP (Copy of memo to BFI vendors)
M - 4.5.2	84				
	All landfill equipment shall be equipped with air flow silencers on intake systems and low-noise mufflers on exhaust systems that shall be properly maintained.	O	DCP	DCP	IND CONSULT DCP
M - 4.6	LIGHT AND GLARE				
M - 4.6	85				
	All lighting shall be shielded and directed onto the site. No floodlighting shall be located that can be seen directly by adjacent residents, motorists on adjacent public streets or highways, or pilots within the "airport approach zone." This condition shall not preclude the installation of low-level security lighting.	O	LEA	DCP	
M - 4.7	LAND USE				
M - 4.7.1	Community Plan and Zoning Designations				
M - 4.7.1	86				
	Maintain and enhance the 100± acre open space buffer area in the southern portion of the site by implementing revegetation programs in conjunction with onsite programs	O	DCP	DCP	DCP IND CONSULT
M - 4.7.2	General Plan Elements No mitigation measures would be required.				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.7.2	4.7.3 Regional, State and Federal Plans No mitigation measures would be required.				
M - 4.7.2	4.7.4 Other Landfill and Transfer Station Facilities No mitigation measures would be required.				
M - 4.7.2	4.8 NATURAL RESOURCES Refer to Section 4.9.6, Risk of Explosion for a discussion of potential re-abandonment mitigation measures.				
M - 4.9	RISK OF UPSET				
M - 4.9.1	Hazardous Materials				
M - 4.9.1	87 The landfill shall be operated as a Class III landfill; no liquid, hazardous, radioactive material, or infectious medical wastes will be accepted.	O	CIWMB LARWQCB LEA	CIWMB LEA	
M - 4.9.1	88 Haulers disposing of drums (i.e., 55-gallon) shall have drums triple-rinsed with tops and bottoms removed prior to acceptance.	O	DTSC LEA	DTSC LEA	
M - 4.9.1	89 Notices shall be posted in English and Spanish at prominent locations onsite to notify waste haulers about hazardous waste policies of the landfill operator and to inform haulers that hazardous waste cannot be disposed of at the facility. Signage shall help inform waste haulers of the rules and regulations governing the disposal of hazardous waste, and that anyone negligently or intentionally bringing in hazardous waste shall be prosecuted to the full extent of the law.	O	CIWMB LEA	CIWMB LEA	
M - 4.9.1	90 A refuse inspection program that includes direct visual inspection, remote television monitors to inspect incoming rolloff-type loads and open-top vehicles, and radiation detecting devices shall be implemented by the landfill operator to prohibit the illegal dumping or disposal of liquids and hazardous wastes at the landfill.	O	SCAQMD CIWMB LEA	SCAQMD CIWMB LEA	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.1 91	The landfill operator shall implement a hazardous waste load-checking program. This program shall include inspecting random loads for hazardous wastes in a segregated area of the landfill, and landfill employees shall scan waste materials as they are being unloaded at the active working face. Hazardous waste load checks at the proposed City/County Landfill will be 1.5 load checks per 1,000 tons of solid waste received at the landfill. Twelve unannounced intensive manual inspections of refuse loads shall be conducted over twelve month periods by trained site personnel (subject to verification by the Local Enforcement Agency and under the provisions of the hazardous waste load checking program approved by the Local Enforcement Agency). These inspections shall be conducted in each 12-month period.	O	LARWQCB CIWMB LEA	CIWMB LEA	
M - 4.9.1 92	If hazardous waste materials are discovered, emergency response shall include worker identification and notification procedures, cordoning off the area, and notifying Cal-EPA, DTSC. Once hazardous waste is identified, the material shall be removed, containerized, and temporarily stored onsite, if safe to handle. In the unlikely event that acutely hazardous material is discovered, the immediate area will be evacuated, and a qualified hazardous waste hauler shall be contacted for immediate collection and disposal of the material at a permitted Class I hazardous waste landfill. After any such incident, all necessary reports shall be completed and filed by the landfill operator with the following agencies: City of Los Angeles Police Department, County of Los Angeles Office of the District Attorney, Environmental Crimes Unit, City of Los Angeles Fire Department, City of Los Angeles Department of Environmental Affairs, and the LARWQCB.	O	DTSC CIWMB LAPD LEA	CIWMB LEA	
M - 4.9.1 93	Landfill employee training programs on hazardous waste detection shall be conducted. These programs shall be presented during preemployment and for subsequent annual review for all employees.	O	DTSC CIWMB LEA	CIWMB LEA	
M - 4.9.1 94	The spill response program shall be part of required training for all facility employees. In the event of a spill, containment is paramount. All landfill employees shall be trained to use dirt and/or other absorbent materials to pick up and/or contain small spills of oils, solvents, and/or other materials that may be harmful to the public, facility workers, or the environment. Training in the use of personal protective equipment, fire extinguishing aids (e.g., hoses or extinguishers), and spill containment/mitigation (e.g., absorbents) shall be provided.	O	LARWQCB CIWMB LEA	LARWQCB CIWMB LEA	
M - 4.9.1 95	Full-time inspectors shall be present at all times when waste is being received and covered onsite for inspection of waste materials. Full-time inspectors shall be deemed by the City to be qualified through training and experience to perform assigned duties.	O	CIWMB LEA	CIWMB LEA	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.2	Vectors				
M - 4.9.2	96	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	97	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	98	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	99	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	100	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	101	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	102	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	103	O	CIWMB LEA	CIWMB LEA	



MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.2	104	All buildings, paved areas, landscaped areas, and perimeter areas shall be inspected regularly for signs of vectors. Any building openings, ground holes, and deficiencies shall be repaired as they are discovered during routine inspections to prevent the intrusion of any ground vectors.	O	CIWMB LEA	CIWMB LEA	
M - 4.9.2	105	In the event that vectors may occur onsite, appropriate measures shall be implemented (e.g., the use of a professional exterminator).	O	CIWMB LEA	CIWMB LEA	
M - 4.9.3		Litter				
M - 4.9.3	106	<i>approx 1,600</i> The landfill site shall be operated to minimize litter generation through implementation of the following measures: compaction of waste at the working face (i.e., 1,400 pounds of compaction per cubic yard); waste materials covered with at least 6 inches of clean, compacted soil or approved alternative daily cover (green waste shall not be allowed as alternative daily cover, if the SCAQMD determines that it is causing odor problems) by the end of the working day; and maintenance of the active working face areas as small as safely possible given the type and quantity of landfill equipment. The use of greenwaste is subject to the following: (1) stockpiling of greenwaste shall not occur within the 500-foot M3 buffer; (2) when stockpiled, greenwaste shall be turned regularly to prevent anaerobic conversion; and (3) if a greenwaste odor problem occurs, such waste shall immediately be disposed of in the landfill with an appropriate daily cover that would not magnify the odor problem. <i>- no green w</i>	O	CIWMB LEA	CIWMB LEA	
M - 4.9.3	107	Litter and debris shall be contained within the landfill property boundaries by the use of secondary litter fences (located along the outside perimeter of the landfill) and by portable litter fences placed adjacent to the active working face areas. Fences outside of the landfill perimeter may be visible to the surrounding community. Further, the fences and adjacent areas will be cleaned regularly to keep refuse to a minimum.	O	CIWMB LEA	CIWMB LEA	
M - 4.9.3	108	The landfill operator shall inform owners of registered vehicles, by signage, and through a <u>recorded</u> phone message to comply with vehicle tarping requirements under § 23114 and 23115 of the California Vehicle Code or face a fine assessed by the operator. Waste haulers who repeatedly violate this code shall not be allowed to dispose of their waste loads at the facility.	O	CIWMB LEA	CIWMB LEA	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.3	109	On-a-once a week basis, or as needed, the landfill operator shall mobilize cleanup crews to provide litter pickup services within the O'Melveny Park area, along Balboa Boulevard and San Fernando Road, and in other residential areas located in proximity to the landfill, that may be affected by offsite litter migration. On a daily basis, the cleanup crews shall inspect the surrounding area to assess if more frequent cleanups are required. Fences outside of the landfill perimeter may be visible to the surrounding community.	O	DCP	DCP	
M - 4.9.3	110	Landfill employees shall watch for any illegal dumping activities on or around the project site. The landfill litter control crew shall provide cleanup service for areas within one mile of the project site. The phone number where this service will be requested will be provided in the quarterly newsletter and on the web site.	O	CIWMB LEA	CIWMB	
M - 4.9.3	111	The administrative offices shall be equipped with a radio dispatch system that can quickly engage crews to respond to perceived litter complaints in the surrounding neighborhoods.	O	CIWMB LEA	CIWMB	
M - 4.9.3	112	The City LEA shall inspect the landfill on a regular basis, at which time the effectiveness of the litter control program shall be documented and any necessary improvements shall be made, including: a. Landfill personnel shall continuously patrol the access road to the scales from the time the landfill opens until the time of closure in the evening. b. Improperly covered or contained loads that may result in a significant release of litter shall be immediately detained and the condition corrected, if practical, before the load proceeds to the active working face areas. If correction cannot be made, the load shall be conducted under escort to the working face. c. All debris found on or along the landfill entrance and working face access roads shall be immediately removed. d. Operating areas shall be located in wind-shielded portions of the landfill during windy periods. e. Litter fences shall be installed in operating active working face areas, as deemed necessary by the LEA.	O	CIWMB LEA	CIWMB LEA	
M - 4.9.4		Employee Safety and Site Security				
M - 4.9.4	113	The landfill operator shall implement an IIP program in compliance with CCR, Title 8, § 3203, designed to protect employees from work-related hazards associated with operation of the landfill site. Unsafe or unhealthful work conditions, practices, or procedures shall be immediately corrected by the landfill operator.	O	CIWMB Cal OSHA LEA	CIWMB Cal OSHA	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.4	114	Each supervisor or manager shall conduct regular periodic inspections to identify less-than-adequate or unsafe working conditions, improper or unsafe work practices, or procedures in their work areas. The maintenance supervisor shall be notified of needed repairs or corrective measures using a "safety inspection report" form. Additional inspections shall be accomplished whenever new processes, procedures, substances, or equipment are introduced into the workplace or when a supervisor becomes aware of a new, potential, or previously unrecognized hazard.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4	115	Appropriate inspection checklists shall be developed, used, and maintained to accurately reflect various exposures in different work areas. Daily observation of the workplace environment by employees, supervisors, managers, and the safety director shall occur. Discrepancies shall be reported. Records of inspections, deficiencies, and corrective measures shall be maintained in the safety/maintenance offices.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4	116	If a problem or discrepancy is identified, an inspection report shall be prepared. The report shall identify the priority assigned to each discrepancy, as follows: Priority One, resolve the problem immediately; Priority Two, resolve the problem by the end of the working day; Priority Three, resolve the problem within 48 to 72 hours; and Priority Four, resolve the problem within 1 week as soon as the part(s) and/or materials are available. Unsafe work practices shall be interrupted immediately by the observing supervisor. Appropriate training shall be implemented. If the unsafe practice continues, progressive discipline shall be employed.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4	117	Communication of safety and health methods to employees shall include verbal communication with employees at quarterly safety meetings; small group meetings conducted by first-line supervisors with their respective employee groups that shall be weekly "tailgate," "toolbox," or operations and safety meetings; written safety and health issues posted on employee bulletin boards; safety posters; suggestion boxes for employees to anonymously utilize; and action by management to evaluate and implement the pertinent employee safety suggestions.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4	118	Accident/injury reports, inspections, and findings, including corrections and training records, shall be kept for 3 years. The OSHA Log 200 shall be retained by the landfill operator for a period of 5 years. Medical records for those employees involved in handling of hazardous wastes shall be maintained for a period of 30 years after employment termination.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4	119	First-aid kits shall be located in dispatch, maintenance, scale houses, and corporate administrative offices, in addition to all supervisor vehicles. These kits shall contain "Band-Aids," bandages, sprays, miscellaneous ointments, and minor treatment supplies. These supplies are intended for treatment of small or nonserious cuts, burns, scrapes, etc. Injuries requiring medical attention shall be treated at the Holy Cross Medical Center. This hospital shall also provide ambulance service.	O	CIWMB LEA	CIWMB Cal OSHA	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.4 120	The landfill operator shall implement an emergency action plan in compliance with CCR, Title 8, § 3220. This plan shall designate emergency escape routes and procedures, rescue and medical duties, methods for reporting fires and other emergencies; and names of persons and departments to contact during an emergency.	O	CIWMB Cal OSHA LAFD LEA	CIWMB Cal OSHA LAFD	
M - 4.9.4 121	The landfill operator shall implement a fire prevention plan in compliance with CCR, Title 8, § 3221. Components of this written fire prevention plan shall include potential fire hazards and their proper handling and storage procedures; potential ignition sources (i.e., welding or smoking), their control procedures, and the type of fire protection equipment or systems that can control a fire involving them; names or regular job titles of those responsible for maintenance of equipment and systems installed to prevent or control ignitions or fires; and names or regular job titles of those responsible for the control of accumulation of flammable or combustible waste materials.	O	CIWMB Cal OSHA LAFD LEA	CIWMB Cal OSHA LAFD	
M - 4.9.4 122	In compliance with CCR, Title 8, § 3314, lockout/blockout procedures shall be implemented at the proposed project. Machinery or equipment capable of movement shall be stopped and the power source deenergized or disengaged: if necessary, the moveable parts shall be mechanically blocked or locked out to prevent inadvertent movement during cleaning, servicing, or adjusting operations. If the machinery or equipment must be capable of movement during this period in order to perform the specific task, the designated station manager or supervisor shall minimize the hazard of movement by providing and requiring the use of extension tools or other methods to protect employees from injury. Prime movers, equipment, or power-driven machines equipped with lockable controls or readily adaptable to lockable controls shall be locked out or positively sealed in the "off" position during repair work and setting-up operations. The operator shall provide a sufficient number of accident prevention signs or tags and padlocks, seals or other similarly effective means to safely conduct repairs.	O	CIWMB LEA	CIWMB Cal OSHA	
M - 4.9.4 123	Personal protective equipment shall be provided to all operations employees and will include hard hats, heavy gloves, ear plugs, dust masks, safety boots, goggles, and safety vests.	O	CIWMB Cal OSHA LEA	CIWMB LEA	
M - 4.9.4 124	The landfill operator shall comply with all applicable safety ordinances contained in the City of Los Angeles Municipal Code.	O	LEA	County DOHS LEA	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.4 125	The landfill operator shall maintain perimeter fencing in and around the site in accordance with CCR, Title 14, § 17658 to discourage illegal entry to the landfill. Where existing topography conditions create an effective barrier, no perimeter fencing shall be installed. Entrance and access gates shall remain locked when the landfill facility is not in operation. All existing perimeter fencing shall be inspected on a routine basis by the landfill operator, and necessary repairs shall be made to ensure a continued deterrent for unauthorized entry to the project site. Additionally, the landfill operator shall maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the project site entrance.	O	LEA	LADBS LAPD LEA	
M - 4.9.4 126	All landfill equipment shall be properly maintained and operated to minimize the health and safety impacts on landfill personnel and the public. Standby equipment including water trucks shall be made available during periods of vehicle maintenance or breakdown.	O	SCAQMD CIWMB LEA	SCAQMD CIWMB LEA	
M - 4.9.5	Human Health				
M - 4.9.5 127	A citizen's advisory committee shall be established, if deemed necessary by the City Council or Planning Commission through a project condition, to address area resident health concerns about the existing inactive and proposed City/County Landfill Project. The committee's mandate shall include discussions with appropriate technical experts and regulatory agencies responsible for the on- and offsite monitoring activities at the project site. The advisory committee would be responsible for presenting information and discussions of these regulatory agency members back to area residents through planned informational meetings.	O	DCP	DCP	
M - 4.9.6	Risk of Explosion				
M - 4.9.6 128	Landfill Gas and Collection System Onsite structures shall be continuously monitored for the presence of unsafe levels of methane gas.	O	CIWMB SCAQMD LAFD LEA	CIWMB SCAQMD LAFD LEA	
M - 4.9.6 129	Landfill Gas and Collection System If necessary, the landfill operator shall install electrical (e.g., battery backup) combustible gas detectors in habitable structures. Employees shall be trained in all applicable safety requirements to prevent any upset conditions from occurring.	O	CIWMB SCAQMD LAFD LEA	CIWMB SCAQMD LEA	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.6	130	<p><b>Landfill Gas and Collection System</b>  Risks associated with the gas collection and flaring system shall be mitigated through use of flexible piping, flame arrestors, sensors, and automatic shutoff controls. Any new flare stations shall have safety shutdown devices designed and installed into the flare station, including a telephone auto-dialer, to provide emergency notification. All gas extraction equipment, including gas condensate and propane tanks, shall be adequately secured to prevent damage during a seismic event. Inspections of the gas collection and flaring system shall be performed after ground shaking from an earthquake, and necessary action shall be taken to correct any potential problems. All condensate treatment that takes place on site shall observe the 500 foot setback from the M3 property line.</p>	O	CIWMB SCAQMD LEA	CIWMB SCAQMD	
M - 4.9.6	131	<p><b>Abandoned Well Sites</b>  Operators involved in excavation shall be made cognizant of the potential presence of existing unrecorded, subsurface wellheads. If a wellhead (or other unidentifiable obstruction) is encountered during construction all excavation activities shall cease. The area will be cordoned off, and the landfill supervisor shall be called to determine whether the obstruction is an abandoned wellhead.</p>	O	SCAQMD	SCAQMD	
M - 4.9.6	132	<p><b>Abandoned Well Sites</b>  A portable explosive gas detection device shall be utilized to determine whether the obstruction is a wellhead that may be leaking natural gas. If this is the case, all personnel shall be evacuated within a 500-foot radius and a representative from the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources shall be notified. Excavation activities shall cease until further instruction from Division of Oil, Gas, and Geothermal Resources is received. If gas is not detected, a backhoe or similar type of equipment shall be brought in to further expose the obstruction. If necessary, proper abandonment procedures will be utilized following Division of Oil, Gas, and Geothermal Resources protocol.</p>	O	Cal. Dept. of Conservation, Division of Oil, Gas and Geothermal Resources SCAQMD	SCAQMD	
M - 4.9.6	133	<p><b>Trenches and Excavations</b>  A portable explosive gas detection device shall be utilized in trenches and excavations to determine the presence of methane gases. If unsafe concentrations of gas exist, all employees would be immediately removed from the area of unsafe gas concentration. The safety monitor would be responsible for ensuring that appropriate worker safety equipment is operable, as well as worker education and instruction correctly implemented, to prevent the potential for methane gas explosions.</p>	O	Cal. Dept. of Conservation, Division of Oil, Gas and Geothermal Resources SCAQMD City LEA	SCAQMD Cal OSHA	
M - 4.9.7		<p><b>Airport Safety (Bird Strikes)</b></p>				

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.9.7	134	In accordance with CCR § 17258.10 and 40 CFR Section 258.10, the project proponent will notify Whiteman Air Park and the FAA of the proposed project and projected startup date.	PC	LEA FAA	LEA FAA	
M - 4.9.8		Electromagnetic Fields No mitigation measures would be required.				
M - 4.1		POPULATION No mitigation measures would be required.				
M - 4.11		HOUSING No mitigation measures would be required.				
M - 4.12		RIGHT-OF-WAY AND ACCESS No mitigation measures would be required.				
M - 4.13		TRANSPORTATION AND CIRCULATION				
M - 4.13.1		Traffic				
M - 4.13.1	135	For those intersections where project-related traffic volumes are expected to create poor operating conditions and/or significantly impact the operating conditions of the study area intersections, mitigation is designed to improve and/or change the existing intersection geometry, thereby, increasing existing intersection capacity. Capacity improvements shall include roadway widening, roadway restriping, reconfiguring roadways, or providing additional lanes to various approaches of a key intersection.	C	LADOT	LADOT	
M - 4.13.1	136	Roxford Street at the I-5 Freeway, (SB ramp) Restripe westbound approach on Roxford Street to provide dual left-turn lanes and one through lane.	C	LADOT	LADOT	
M - 4.13.1	137	Roxford Street at the Encinitas/I-5 Freeway (NB ramp) Restripe northbound approach on Encinitas Avenue to provide left-turn lane, shared through/left-turn lane, and shared through/right-turn lane.	C	LADOT	LADOT	

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.13.1 138	<p>San Fernando Road at Balboa Boulevard</p> <p>This key intersection features two through lanes in each direction on San Fernando Road and two northbound approach lanes, striped as an exclusive left-turn lane and an option left-right turn lane, are provided on Balboa Connector. A separate westbound left-turn lane as well as protected left-turn phasing is provided. Existing pavement widths and physical constraints (i.e., hillside encroachment) do not allow for any physical improvements, such as providing an exclusive eastbound right-turn lane on San Fernando Road for heavy existing and anticipated right-turn volumes.</p>	C	LADOT	LADOT	
M - 4.13.1 139	<p>Contribute to the design, construction, and operation of the Northeast Valley Automated Traffic Surveillance and Control (ATSAC) system for this intersection. The current cost of ATSAC for the Northeast Valley System is \$79,000 per intersection. The contribution to ATSAC shall be made prior to the start of construction for this ATSAC system, which is scheduled for the year 2003.</p>	C	LADOT	LADOT	
M - 4.13.1 140	<p>San Fernando Road at Sierra Highway</p> <p>Restripe northbound approach on San Fernando Road to provide a shared through/right turn lane and exclusive right-turn lane and restripe the westbound approach of Sierra Highway for a 12-foot-wide curb lane.</p>	C	LADOT	LADOT	
M - 4.13.1 141	<p>San Fernando Road at Project Driveway</p> <p>Install a new traffic signal at San Fernando Road/Project Driveway and widen and restripe the northbound approach of San Fernando Road at Project Driveway to provide a left-turn lane and through lane. Also contribute to the design, construction, and operation of the Northeast Valley ATSAC system for this intersection. The current cost of ATSAC for the Northeast Valley System is \$79,000 per intersection. The contribution to ATSAC shall be completed prior to the start of construction for this ATSAC system, which is scheduled for the year 2003.</p>	C	LADOT	LADOT	
M - 4.13.1 142	<p>The required street improvements and signal modifications shall be guaranteed before the issuance of any building permit for this project through the B-permit process of the Bureau of Engineering, Department of Public Works, and the encroachment permit process of Caltrans (where applicable). Construction of the improvements to the satisfaction of LADOT, the Bureau of Engineering, and Caltrans (where applicable) must be completed before issuance of any certificate of occupancy. Prior to setting the bond amount, the Bureau of Engineering shall require that the developer's engineer or contractor contact LADOT's B-Permit Coordinator, telephone (213) 580-5336, to arrange a pre-design meeting to finalize the proposed geometric and traffic signal designs for the project.</p>	C	LADOT	LADOT	



MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.13.2	Los Angeles County Congestion Management Program No mitigation measures would be required.				
M - 4.13.3	Construction-Related Traffic No mitigation measures would be required.				
M - 4.13.4	Parking and Safety Concerns				
M - 4.13.4    143	Prior to issuance of any certificate of occupancy for the project, install a new traffic signal at San Fernando Road/Project Driveway and widen and restripe the northbound approach of San Fernando Road at Project Driveway to provide a left-turn lane and through lane. Also contribute to the design, construction, and operation of the Northeast Valley ATSAC system for this intersection. The current cost of ATSAC for the Northeast Valley System is \$79,000 per intersection. The contribution to ATSAC would be completed prior to the start of construction for this ATSAC system, which is scheduled for the year 2003.	C	LADOT	LADOT	
M - 4.13.5	Access Road in Sunshine Canyon No mitigation measures would be required.				
M - 4.13.6	Public Transportation No mitigation measures would be required.				
M - 4.13.6	Rail and Light Rail No mitigation measures would be required.				
M - 4.13.6    144	Bicycle Routes The following mitigation measure is proposed by the project proponent to address any potential localized impact along the San Fernando Road bicycle lane from increased truck traffic at or near the project site: Signs acceptable to the City shall be posted at or near the entrance to the landfill facility. These signs shall caution the public that heavy truck traffic exists in the area.	C	LADOT	LADOT	
M - 4.14	PUBLIC SERVICES				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.14.1	Fire and Emergency Medical Services				
M - 4.14.1	145 Onsite water trucks shall provide sufficient water storage and pumping capabilities to extinguish fires. Tracked dozers and scrapers shall be utilized to smother any onsite fires. Easily accessible soil stockpile areas for daily cover shall be used by landfill personnel to smother onsite fires.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.1	146 Definitive plans and specifications shall be submitted to the LAFD and requirements for necessary permits satisfied prior to commencement of landfill development.	O	CIWMB LAFD LEA	CIWMB LAFD	
M - 4.14.1	147 The project proponent shall maintain and expand existing onsite fire response capabilities by using heavy operating equipment and readily available fire-extinguishing equipment. A 200-foot long, 1½-inch-diameter fire hose shall be available on water trucks for firefighting at the landfill working face area. If necessary, earth moving equipment shall be used to control fires by smothering fires with dirt.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.1	148 Hydrants shall be installed in conformance with LAFD requirements and Los Angeles City Fire Code § 57.09.06.	O	CIWMB LAFD LADBS	CIWMB LAFD	
M - 4.14.1	149 New construction and placement of water tanks, water mains, and fire hydrants shall be completed prior to landfilling operations and shall meet final fire flow requirements determined by the LAFD.	O	CIWMB LAFD LEA LADBS (with exception of water mains)	CIWMB LAFD	
M - 4.14.1	150 The project proponent shall maintain brush clearance within 100 feet of landfill operations and structures as specified in the Los Angeles City Fire Code § 57.21.07 and 57.25.01. Fire-resistant native plants shall be maintained free of combustible litter (i.e., partly decayed/organic matter). These plants shall be used without restriction within this brush clearance zone.	O	CIWMB LAFD LEA	CIWMB LAFD	
M - 4.14.1	151 Fire breaks, roads, and fire trails shall be maintained by the project proponent in accordance with the Los Angeles City Fire Code § 57.09.04 and 57.25.03.	O	CIWMB LAFD	CIWMB LAFD	
M - 4.14.1	152 No building or portion of a building shall be constructed more than 150 feet from the edge of a roadway of an improved street, access road, or designated fire lane.	O	CIWMB LAFD PW-BOE LADBS	CIWMB LAFD PW-BOE LADBS	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.14.1	153	Any person owning or having control of any facility, structure, or group of structures on the premises shall provide and maintain LAFD access.	O	CIWMB LAFD PW-BOE LADBS	CIWMB LAFD PW-BOE LADBS	
M - 4.14.1	154	Access for LAFD apparatus and personnel to and into all structures shall be required.	O	CIWMB LAFD PW-BOE LADBS	CIWMB LAFD PW-BOE LADBS	
M - 4.14.1	155	Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for fire fighting equipment.	O	CIWMB PW-BOE LADBS LEA	CIWMB PW-BOE LADBS	
M - 4.14.1	156	The project proponent shall temporarily close the landfill if a fire of regional significance is located near the project area and poses an imminent threat to the safety of landfill employees.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.1	157	A detailed fire response plan shall be prepared by the project proponent that incorporates LAFD requirements.	O	CIWMB LAFD LEA	CIWMB LAFD	
M - 4.14.1	158	Fire extinguishers shall be maintained in all heavy equipment, onsite work vehicles, and all structures as required by the Los Angeles LAFD.	O	CIWMB LAFD LEA	CIWMB LAFD	
M - 4.14.1	159	Signs shall be posted onsite and in a manner approved by the City Fire Chief prohibiting open burning within the project area, as specified under City of Los Angeles Fire Code, § 57.25.02.	O	CIWMB LAFD LEA	CIWMB LAFD	
M - 4.14.1	160	All internal combustion engines used in landfilling operations shall be equipped with spark arresters.	O	CIWMB LAFD	CIWMB LAFD	
M - 4.14.1	161	Landfill equipment shall be cleaned regularly to reduce the potential for equipment fires.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.1	162	Vehicle and mechanical inspections shall be performed on a regular basis, and focus on the electrical system, hydraulic, and fuel lines.	O	CIWMB LAFD	CIWMB LAFD	

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.14.1	163	The project proponent shall provide fire control in compliance with CCR, Title 14, Division 7, Chapter 3, Article 7.6, § 17741 (Burning Wastes). If burning waste is received at the landfill site it shall be deposited in a safe, isolated area of the landfill and extinguished. If burning waste has been deposited at the working face area, it shall immediately be excavated, spread, and extinguished.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.1	164	In the event the project proponent detects settlement or venting of smoke, the City LEA shall be contacted. The project proponent under the direction of the City LEA shall undertake appropriate measures to identify the location of the subsurface fire and implement the appropriate fire control techniques to assure the fire has been extinguished.	O	CIWMB LAFD LEA	CIWMB LAFD LEA	
M - 4.14.2		Police No mitigation measures would be required.				
M - 4.14.3	165	Schools Prior to the issuance of an occupancy permit, the project proponent shall submit proof to the City's Department of Building and Safety that all applicable school impact fees have been paid.	C of O	LAUSD	LAUSD	
M - 4.14.4		Parks and Recreational Resources  No significant impact on park and recreational resources are anticipated, and no mitigation measures are required. Refer to the following mitigation measures included within this Draft SEIR: Section 4.2.11, Air Quality-Construction; Section 4.2.12, Air Quality-Operations; Section 4.9.3, Litter; and Section 4.18, Aesthetics/Views.				
M - 4.14.5		Hiking and Equestrian Trails No significant environmental impact on hiking and equestrian trails is anticipated; therefore, no mitigation measures are required. Refer to the following mitigation measures included within this Draft SEIR: Section 4.2.11, Air Quality-Construction; Section 4.2.12, Air Quality-Operations; Section 4.9.3, Litter; and Section 4.18, Aesthetics/Views.				
M - 4.14.6		4.14.6 Libraries The topical issue of libraries was determined not to be significant in the Initial Study and Checklist dated July 25, 1991.				
M - 4.15		ENERGY CONSERVATION There will not be any significant impacts on energy resources as a result of project development; therefore, no mitigation measures are required. Specific energy conservation mitigation measures for the proposed implementation and development of onsite buildings and ancillary facilities are provided in Section 4.16.1, Electricity.				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.16	UTILITIES				
M - 4.16.1	Electricity				
M - 4.16.1	166	The project proponent shall incorporate measures that will exceed minimum efficiency standards for Title 24 of the CCR.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	167	Built-in appliances, refrigerators, and air conditioning equipment shall exceed the minimum efficiency standards for Title 24 of the CCR.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	168	Buildings shall be well sealed to prevent outside air from infiltrating and increasing interior air conditioning and space heating loads. A performance check of the installed air conditioning and space heating systems shall be completed by the project proponent prior to the issuance of the certificate of occupancy to ensure the system properly operates.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	169	Thermal insulation that exceeds requirements established by the CCR shall be installed in walls and ceilings.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	170	Window systems shall be designed to reduce thermal gain and loss, thus reducing cooling loads during warm weather and heating loads during cool weather.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	171	Heat-reflective draperies shall be installed on appropriate exposures.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	172	Fluorescent and high-intensity-discharge lamps, which give the highest light output per watt of electricity consumed, shall be installed wherever possible, including all parking lot and site lighting to reduce electricity consumption.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	173	Occupant-controlled light switches and thermostats shall be installed to permit individual adjustment of lighting, heating, and cooling to avoid unnecessary energy consumption.	C of O	LADBS DWP	LADBS DWP
M - 4.16.1	174	Time-controlled interior and exterior public area lighting limited to that necessary for safety and security shall be installed.	C of O	LADBS DWP	LADBS DWP

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PC - Before Project Construction/Prior to Landfill Construction.  
C - Prior to Commencement of Landfill Development/During Project Construction.  
O - Throughout Landfill Operations and On An On-Going Basis

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.16.2	Natural Gas No mitigation measures would be required.				
M - 4.16.3	Communication Systems No mitigation measures would be required.				
M - 4.16.4	Water				
M - 4.16.4	175 The project proponent shall coordinate with DWP in advance to efficiently obtain potable water for delivery to the construction site and to meet any restrictions imposed.	O	DWP	DWP	
M - 4.16.4	176 When reclaimed water lines are extended into the project area, and if economically feasible, reclaimed water would be utilized onsite for irrigation and dust suppression. Prior to the submittal of design plans to the City's Building and Safety Department, the project proponent shall investigate the possibility of utilizing reclaimed water at the project site.	O	DWP LADBS	DWP	
M - 4.16.4	177 During the site life of the landfill and ancillary facilities, the landfill operator shall effectively utilize water conservation measures at the project site. These measures shall include the following: a. The project proponent shall install an efficient drip irrigation system that minimizes runoff and evaporation, and provides water distribution in an efficient manner. b. A dust suppression additive shall be utilized onsite to minimize water usage. c. Green waste/wood waste (after grinding) will be used onsite as mulch material for revegetation purposes. Mulch shall be applied on the top layers of revegetation areas to improve the water-holding capacity of the soil. d. Onsite revegetation shall include the use of water-conserving plant materials to the greatest extent possible.	O	DWP LADBS	DWP	
M - 4.16.5	Sewers No mitigation measures would be required.				
M - 4.16.6	Stormwater Drainage No mitigation measures would be required.				

MITIGATION MEASURE NOS.	MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.16.7	Solid Waste No mitigation measures would be required.				
M - 4.17	SAFETY Refer to Section 4.9.4, Employee Safety and Site Security, within this table.				
M - 4.18	AESTHETICS/VIEWS				
M - 4.18	178	The maximum permitted elevations for the landfill shall not be allowed to be exceeded at any time during landfill development and shall be verified through survey control points.	O	LEA	LEA
M - 4.18	179	The cover-material excavation areas shall be confined as much as possible to areas that will later be landfilled.	O	LEA	LEA
M - 4.18	180	As part of revegetation efforts for the landfill, the upper ridges of the canyon shall be planted with native species (both trees and scrubs) to supplement existing vegetation on the ridgelines and reestablish naturally bare areas.	O	DCP	DCP
M - 4.18	181	The final cover of landfilled areas shall be landscaped with a ground cover mix and plant species that are compatible with the immediate area and shall be maintained in a natural setting until it is converted to its final use.	O	DCP LEA	DCP
M - 4.18	182	The 100± acre open space buffer zone on the southern boundary of the project site shall continue to be maintained and enhanced with both native and nonnative vegetation.	O	DCP	DCP
M - 4.19	CULTURAL/SCIENTIFIC RESOURCES				
M - 4.19.1	Archaeological				

MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.19.1	183	Prior to the commencement of initial earth excavation, specific sections of the project area shall be resurveyed as a precautionary measure to minimize potential loss of undiscovered archaeological resources. Specific areas within the project site to be resurveyed shall be determined by the intended cut-and-fill areas proposed for landfill development. As new areas for excavation are identified, an evaluation of those areas shall be made based on the prior survey results and consultation with appropriate technical specialists. Factors to be considered for delineation of areas to be resurveyed will be known site selection factors associated with aboriginal groups suspected of having inhabited the general area. These factors include proximity to water, the type of vegetation (e.g., food source, shelter, and fuel), and the topography (e.g., slope and aspect).	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.1	184	An archaeologist shall be present onsite during major infrastructure work which requires significant surface disturbance.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.1	185	The landfill operator shall instruct landfill equipment operators how to identify archaeological resources and upon discovery of such findings immediately report the location of the site to their supervisor. If any evidence of aboriginal habitation is discovered during earthmoving activities, landfill operations will cease in that particular location until a qualified archaeologist has made a determination as to the significance of the site or findings. Any significant archaeological resources shall be recovered to the extent practicable prior to resuming activities in that area of the landfill.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.1	186	Archaeological resources recovered during surface collection, subsurface excavations, and monitoring, with related records, notes, and technical reports shall be curated at a regional repository approved by the City.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.2		Paleontological Resources				
M - 4.19.2	187	Prior to the commencement of initial earth excavation, specific sections of the City/County Landfill Project area shall be resurveyed as a precautionary measure to minimize potential loss of undiscovered paleontological resources. Specific sections of the project area to be resurveyed shall be as determined by the intended cut-and-fill areas proposed for landfill development. As new areas for excavation are identified by the project proponent, an evaluation of those areas shall be made based on the prior survey results and consultation with appropriate technical specialists.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP



MITIGATION MEASURE NOS.		MITIGATION MEASURES	MONITORING PHASE	MONITORING AGENCY	ENFORCEMENT AGENCY	REPORTS REC'D AND
M - 4.19.2	188	A paleontologist shall be onsite during major infrastructure work that requires significant excavation. In the event that paleontological resources are discovered during grading or excavation, the paleontologist shall be allowed to redirect grading away from the area of exposed fossils to allow sufficient time for inspection, evaluation, and recovery.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.2	189	The landfill operator shall instruct landfill equipment operators how to identify paleontological resources and upon discovery of such findings immediately report the location of the site to their supervisor. If any evidence of paleontological resources is discovered during earthmoving activities, landfill operations shall cease in that particular location until a qualified paleontologist has made a determination as to the significance of the findings.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.2	190	Any significant paleontological resources shall be recovered to the extent practicable. Due to the potential for rapid deterioration of exposed surface fossils, preservation by avoidance is not an appropriate measure. When fossils cannot be removed immediately, the site shall be stabilized to prevent further deterioration prior to data recovery or the fossil location as directed by a professional paleontologist.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.2	191	The paleontologist shall be retained to perform inspection of the excavation and salvage exposed fossils. Collected fossils shall be curated at a public institution with an educational/research interest in the material. Any curatorial expenses shall be borne by the landfill operator.	PC Prior to landfill construction and excavation.	DCP	DCP	DCP
M - 4.19.3		Historical No significant impacts on historical resources were identified; therefore, no mitigation measures are proposed.				