

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

October 20, 1992

To: Board of Directors (Land Committee--Action)
(Engineering & Operations Committee--Action)

From: General Manager

Subject: Authority to Enter into a Memorandum of Understanding with Kaiser Steel Resources, Inc. and Mine Reclamation Corporation Pertaining to Access Concerning a Landfill Project at the Abandoned Eagle Mountain Mine in Unincorporated Riverside County

Report

Kaiser Steel Resources, Inc. ("KSR") and Mine Reclamation Corporation ("MRC"), sometimes jointly and severally herein referred to as "KSR/MRC", propose to develop a landfill project serviced by railroad and trucking operations at the abandoned Eagle Mountain Mine in unincorporated Riverside County.

The Environmental Impact Report ("EIR") for the project prepared pursuant to the California Environmental Quality Act (CEQA) was certified by the Riverside County Board of Supervisors on September 29, 1992; and certification of the project Environmental Impact Statement under the National Environmental Policy Act is pending before the United States Department of the Interior, Bureau of Land Management. During the course of the environmental review for the EIR, Metropolitan commented and expressed concern with regard to the impact of the project on Metropolitan's land holdings, facilities and operations at Eagle Mountain and in the vicinity of the project. Meetings and discussions were held with representatives of KSR/MRC addressing Metropolitan's concerns.

A Memorandum of Understanding ("MOU") has been developed with representatives of KSR/MRC which, when executed after approval of your Board, will satisfactorily protect Metropolitan's interests. The MOU will assure continued access along Eagle Mountain Road to Metropolitan's Eagle Mountain facilities and protection of those facilities from impacts of the Landfill Project; and reimburse Metropolitan for all reasonable costs related to the Landfill Project.

More specifically, the MOU will protect Metropolitan's interests in several aspects of project development, including partial realignment and extension of Eagle Mountain Road; and necessary grants of easements from Metropolitan for portions of such extensions. The MOU will also satisfactorily address provisions for storm water protection of Metropolitan lands and facilities from runoff from the proposed landfill operations; extension of an existing agreement between Metropolitan and Kaiser Steel Corporation pertaining to railroad and telephone purposes, and extension of Metropolitan's existing airstrip by grants of easements from KSR to Metropolitan. All of KSR/MRC plans for roads, railroad, grading, drainage and facilities which will cross or impact Metropolitan's property are to be submitted to Metropolitan for reasonable review and reasonable approval.

Provision will be made to preserve Metropolitan's rights to utilize remedies available under water resource protection and other environmental protection laws and regulations to ensure that the landfill project will not threaten to pollute water in the Colorado River Aqueduct or underground in the Chuckwalla Aquifer.

As a "responsible agency" under CEQA, Metropolitan "has responsibility for mitigating or avoiding only the direct or indirect environmental effects of those parts of the [landfill] project which it decides to carry out, finance or approve" [State CEQA Guidelines, Section 15096(g)(1)]. Accordingly, Metropolitan's responsibility is limited to the incidental aspects of the landfill project related to implementation of the MOU. Changes or alterations in the project which avoid or substantially lessen the significant environmental effects identified in the EIR are within the responsibility and jurisdiction of Riverside County, the U.S. Bureau of Land Management and additional public agencies other than Metropolitan, which have adopted or should adopt such changes or alterations.

Your Board and its advisory committees are required to review and consider the information contained in the Final EIR prior to making a decision on the MOU. A copy of the executive summary, and the impacts and mitigation tables from the Final EIR is attached to this letter for reference, and a copy of the complete Final EIR is available for review in the Executive Secretary's office.

Board Committee Assignments

This letter was referred for action to:

The Land Committee because of its authority under Administrative Code Section 2451(g) to study, advise and make recommendations with regard to the conduct of proceedings relating to the purchase or sale of interests in property and related negotiations.

The Engineering and Operations Committee because of its authority under Administrative Code Section 2431(c) to study, advise and make recommendations with regard to the operation, protection, and maintenance of the facilities required for the delivery of water and power and for the distribution of electrical energy to the aqueduct pumping plants.

Recommendations

LAND COMMITTEE AND ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.

1. That your Board review and consider the information contained in the Final EIR of the Riverside County Board of Supervisors;
2. That your Board find that changes or alterations in the landfill project related to the MOU are within the responsibility and jurisdiction of Riverside County, the U.S, Bureau of Land Management and additional public agencies other than Metropolitan; and
3. That the Board of Directors authorize the execution by the General Manager of the Memorandum of Understanding between Metropolitan and KSR/MRC, and further to enter into all grants or agreements to protect Metropolitan's rights and fulfill its obligations under such Memorandum of Understanding, all in form approved by the General Counsel.


Carl Boronkay

RDT:psm
bdltrs\Kaiser

Attms.

FINAL
ENVIRONMENTAL IMPACT STATEMENT
ENVIRONMENTAL IMPACT REPORT NO. 323
FOR THE
EAGLE MOUNTAIN LANDFILL PROJECT
Specific Plan No. 252
State Clearinghouse No. 8908413
(Volume I of III)

Applicant

KAISER STEEL RESOURCES, INC.
and
MINE RECLAMATION CORPORATION

Prepared for

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COUNTY OF RIVERSIDE
PLANNING DEPARTMENT



Ed Hastey
California State Director

5/22/92
Date



Joseph A. Richards
Planning Director

6-3-92
Date

BLM-CA-PT-91-015-2200

Executive Summary

Mine Reclamation Corporation (MRC) proposes to develop a Class III nonhazardous solid waste landfill in an unused iron ore open pit mine at Eagle Mountain in northeastern Riverside County, California. The landfill at peak operations would receive up to 20,000 tons per day (tpd) of solid waste: 18,000 tpd by rail and 2,000 tpd by truck. The project is the construction of the landfill and access improvements, and operation of the landfill including railroad and truck transport of refuse from opening to closure and post-closure monitoring.

In addition to the proposed action, several project alternatives were considered in detail in the draft environmental impact statement/environmental impact report (EIS/EIR): (1) the Reduced Landfill Operations alternative allows for the disposal of up to 16,000 tpd in a reduced landfill area. The reduced landfill area would be the same as the proposed project's area, less those areas containing the deepest portions of the East Pit. It would allow for the disposal of 14,000 tpd by rail and 2,000 tpd by truck; (2) the Proposed Action with Rail Access Only alternative would limit the project to 16,000 tpd of solid waste, delivered by rail only. It would avoid the effects attributable to the 100 truck deliveries per day; and (3) the No Project alternative would leave the project area in its present disturbed condition and avoid the potential effects of the proposed landfill. It would require continued reliance on existing or new landfills in southern California. The Bureau of Land Management's preferred alternative is the proposed action, as modified, including the mitigation described in Section II.C. of this EIS/EIR.

Description of Actions

The federal lead agency is the Bureau of Land Management (BLM), from whom approval would be required for (1) a transfer of BLM lands at the project site to Kaiser Steel Resources, Inc., in exchange for Kaiser-owned lands along the Eagle Mountain rail line, and (2) granting of a new Federal Land Policy and Management Act (FLPMA) right-of-way for access to the landfill over the entire length of the Eagle Mountain rail line, Eagle Mountain Road, and the proposed Eagle Mountain Road Extension. The state lead agency is the County of Riverside, from whom approval would be needed for a General Plan Amendment, a Zone Change, a Specific Plan for the landfill, revision of the Mine Reclamation Plan approved in 1978, and a Development Agreement. Other actions necessary to implement the project identified and covered by this EIS/EIR include:

- A solid waste facilities permit issued by the Riverside County Department of Health (the Local Enforcement Agency [LEA]) and the California Integrated Waste Management Board;

Executive Summary

- Waste discharge requirements issued by the Colorado River Regional Water Quality Control Board (RWQCB);
- Authority to Construct and Permit to Operate the landfill gas disposal system issued by the South Coast Air Quality Management District;
- BLM consultation under Section 7 of the federal Endangered Species Act with the U.S. Fish and Wildlife Service (USFWS) for potential effects on federally listed threatened and endangered species;
- A streambed alteration agreement with the California Department of Fish and Game (CDFG) pursuant to Section 1603 of the state Fish and Game Code;
- A Management Agreement with the CDFG under the California Endangered Species Act (Section 2081 of the state Fish and Game Code);
- Compliance with Section 106 of the National Historic Preservation Act;
- Possibly, a permit from the U.S. Army Corps of Engineers under Section 404 of the federal Clean Water Act; and
- Any other permits and actions necessary to implement the landfill and rehabilitation of the existing railroad and truck road.

The landfill would receive refuse from a number of off-site solid waste processing and transfer stations (materials recovery facilities, or MRFs). This project includes the transport of solid waste and the transport and temporary storage of some recyclable materials from the MRFs, but not the construction and operation of the MRFs themselves, which will require separate California Environmental Quality Act (CEQA) compliance.

Modifications to the Project

A draft EIS/EIR was prepared and circulated for public and agency review from July 19, 1991, to September 17, 1991. Since the draft EIS/EIR was issued, minor modifications have been incorporated in the project as a result of new regulations, responses to public comments, or other engineering considerations. These changes are nonsubstantive and do not change any of the impact conclusions of the draft EIS/EIR. They consist of changes in the landfill containment system and reduction in truck traffic to the landfill.

Changes in the Containment System. The project was originally proposed with a clay and high-density polyethylene (HDPE) liner under the deepest portions of the landfill as a part of the overall containment system. To meet the requirements of new federal regulations and

RWQCB recommendations, the proposed composite liner will underlay refuse within the entire landfill area, including side slopes. This composite liner will consist of an HDPE flexible membrane liner (FML), which is underlain by a layer of low-permeability soil or material with equivalent properties. A foundation and vadose zone monitoring layer will be placed under the composite liner. A blanket drainage system for leachate collection and removal will be placed above the composite liner, rather than the leachate collection pipes earlier proposed. A filter and a protective soil layer will be installed over the leachate collection and removal system. A landfill side slope liner is also proposed, consisting of an FML installed over a layer of low-permeability soil.

Reduction in Truck Traffic. Originally, 200 truck round trips per day were proposed during peak operations to haul refuse from several locations in San Bernardino and Riverside counties. As now proposed, the project would set a limit of 100 truck round trips per day from all sources. After three years of operation, there would be no more truck-hauling of waste from outside the desert communities relatively near the landfill, and the limit of 100 truck round trips per day would apply throughout the life of the project. Limits on truck trips would not apply in emergency interruptions of railroad operations.

Major Impacts and Mitigation

The EIS/EIR identifies major impacts on air quality, water quality, biology, and cumulative effects on water supply. Mitigation identified in the EIS/EIR would reduce impacts for these and all other issues. For air quality and cumulative effects on water supply, but for no other issues, impacts would remain significant after mitigation. Major impacts and recommended mitigation are briefly discussed below. A complete list of impacts and mitigation measures is in Section II.C. of the final EIS/EIR.

Air Quality. Air pollution emissions, even after mitigation, would still exceed most thresholds used to determine regulatory actions over point sources. Therefore, air quality effects of the project are considered a significant impact. The EIS/EIR requires the landfill operator to retain a qualified air specialist to supervise all air quality mitigation and report to trustee or regulatory agencies. Mitigation measures are consistent with the best available control technology, and include operational measures for landfill equipment with combustion engines; electrification of landfill equipment where practical; control of fugitive dust by paving, use of dust suppressants, and suspension of operations in high winds; maintenance and operating strictures for truck and locomotive engines; shutdown, maintenance, operating, and emission control procedures for heavy waste-handling equipment; and installation of a landfill gas recovery system with regulated flare or energy-recovery disposal of collected gases.

Cumulative Effect on Water Supply. Use of groundwater for the landfill, considered together with that of other users, would perpetuate an overdraft condition in the aquifer. Mitigation measures to reduce the demand for water include recycling wash water and surface water which

may come in contact with refuse, but the project would still contribute to overdraft of the aquifer.

Water Quality. The major potential impact to water quality would occur if leachate or landfill gas from the landfill were to migrate into and contaminate groundwater, or if runoff were to contact refuse and subsequently contaminate surface waters. For the protection of groundwater, mitigation measures in the EIS/EIR include screening of incoming waste to eliminate hazardous materials, installation of a composite liner under all areas underlying refuse, installation of a leachate collection and disposal system, installation of a landfill gas emissions and migration control system, installation of groundwater pollution detection and monitoring wells, and installation of a vadose zone monitoring system beneath the liner. For the protection of surface water, mitigation measures include the construction of a drainage system to conduct runoff away from the landfill and all refuse-handling areas, prompt compaction and cover of refuse, and use of a low-permeability final cover and grading restrictions to reduce infiltration of precipitation into the landfill.

Biology. Construction and operation of the landfill, access roads, and railroad could adversely affect the federally endangered species desert pupfish and the federally threatened and state endangered species desert tortoise. The EIS/EIR requires the landfill operator to retain a qualified biologist to supervise all biological mitigation and report to trustee or resource agencies. For desert pupfish, mitigation would consist of reviewing plans and monitoring all construction and maintenance work in the Salt Creek drainage; avoidance of weed abatement with chemicals near the habitat; evaluation of railroad operations on the pupfish with appropriate mitigation satisfactory to USFWS and CDFG, if needed; and development of an emergency response plan to minimize impacts in case of a rail accident near the habitat. For the desert tortoise, mitigation for the potential loss of tortoises due to road and railroad traffic include monitoring tortoises near the road and railroad, relocating tortoises, and constructing barriers and passages to keep tortoises off the traveled ways. An extensive control program for ravens, coyotes, kit foxes, and other potential tortoise predators is recommended. Mitigation is also required for potential impacts to other sensitive species, including the California leaf-nosed bat, Eagle Mountain scrub jay, Alverson's foxtail cactus, Orcopia sage, and Nelson's bighorn sheep.

EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
& MITIGATION REPORTING/MONITORING PROGRAM CHECKLIST
CODES - Page 1 of 1

CONDITION OF:

AC/PO	Authority to Construct/Permit to Operate
AER	Air Emissions Regulations
BP	Building Permit
EMTSP	Eagle Mountain Townsite Specific Plan
GP	Grading and Improvement Plans
MRF	Contract of landfill operator with materials recovery facility/transfer stations
MSWFP	Solid Waste Facilities Permits of material recovery facility/transfer stations
NA	Not Applicable
NPDES	National Pollutant Discharge Elimination System Permit
PP	Plot Plan
S7	Section 7 Permit (U.S. Endangered Species Act)
SP	Specific Plan
SPac	Contract of landfill operator with Southern Pacific
SWFP	Solid Waste Facilities Permit
WDR	Waste Discharge Requirements

CHECKPOINT:

i	Inspection, plan or field check
p	Payment
c	Consultation
r	Report

MONITORING PERIOD:

LA	Preconstruction of landfill
LB	Construction of landfill
LC	Operation of landfill
LD	Closure of landfill
LE	Postclosure of landfill
LF	As needed, required, or conditioned
PA	Preconstruction of particular activity
PB	Construction of particular activity
PC	Operation of particular activity
PD	Completion of particular activity
T	Throughout project

MONITOR/REPORT AGENCY:

APCD	Air Pollution Control District
ARB	Air Resources Board
CDFG	California Department of Fish and Game
CHP	California Highway Patrol
DMV	California Department of Motor Vehicles
LEA	Local Enforcement Agency
NPS	National Park Service
RCBS	Riverside County Board of Supervisors
RCDB&S	Riverside County Department of Building and Safety
RCDEH	Riverside County Department of Environmental Health
RDFD	Riverside County Fire Department
RCFCD	Riverside County Flood Control District
RCPD	Riverside County Planning Department
RCTD	Riverside County Transportation Department
RWQCB	Regional Water Quality Control Board
SBCM	San Bernardino County Museum
SCAQMD	South Coast Air Quality Management District
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service

REPORT FREQUENCY:

a	Once on completion
al	On completion, each event
b	On violation
c	As required, needed, or conditioned
d	Specified period
e	At discretion of regulator

SANCTIONS:

1	Withhold permit, certificate, or authority to proceed
2	Stop work order, violation notice, cease and desist order
3	Monetary

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
& MITIGATION REPORTING/MONITORING PROGRAM CHECKLIST
A. WATER QUALITY AND USE - Page 1 of 5**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
1. Potential for pollution of groundwater due to migration of leachate or landfill gas.	a. The acceptance of hazardous waste is prohibited at this landfill. Leachate-causing material, such as free liquid and high-moisture waste, and hazardous waste material will be diverted from the landfill through a waste inspection program, established both at the landfill and at all waste processing facilities sending waste to this landfill, in order to minimize the pollution potential of these materials. All waste loads shall be screened at the respective facilities by trained personnel. Incoming waste will also be periodically checked by specialists with RCDEH. Identified hazardous waste will be collected, temporarily stored on-site in a special containment area provided by the operator for a period not to exceed 90 days, and later transported and disposed in accordance with State and Federal regulations. All hazardous materials waste inspection programs shall be approved by the RCDEH and will be subject to periodic inspection to determine compliance. Costs associated with these activities shall be borne by the operator.	SWFP,MRF, PP	i				j		LC,PC	e	LEA, RCDEH, RWQCB	2
	b. A composite liner, composed of a high-density polyethylene (HDPE) flexible geomembrane a minimum thickness of 80 mil., or other technologically-superior liner, placed over two (2) feet of soil with a maximum permeability of 10^{-7} cm/sec shall be installed below all refuse deposits and including side slopes. A protective geotextile filter fabric shall be placed above the flexible geomembrane liner.	SWFP,WDR PP	i	i	i				LB,PC	c	LEA,RCDEH RWQCB	1,2
	c. A leachate collection and removal system will be installed above the bottom liner using a blanket drainage system and protected by an additional layer of geotextile fabric and a minimum of two feet of compacted soil cover to allow removal of any accumulated leachate from the landfill.	WDR,SWFP, PP	i	i	i				LB,PB	c	LEA, RCDEH, RWQCB	1,2
	d. A drainage control system will be designed and constructed to divert surface water flow from adjacent areas around the landfill area to prevent run-on to the landfill.	WDR,SWFP, PP	i	i	i				LA,LB,LC	c	LEA, RCDEH, RWQCB	1,2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	e. Final landfill cover shall be constructed in accordance with EPA, Subtitle D, RCRA Regulations and shall consist of a minimum two-foot-thick compacted soil foundation layer, a minimum 18-inch-thick soil layer with a maximum permeability of 1×10^{-7} cm/sec, and a minimum one-foot-thick vegetative (erosion) cover or design which is agreed to be technologically superior. The final grade shall have a minimum three percent slope.	SWFP,WDR, PP	i	i	i			LD,LE	al	LEA, RCDEH, RWQCB	1,2
	f. A minimum 12-inch-thick compacted intermediate soil cover designed to minimize the percolation of rain water into refuse shall be installed over landfill areas expected to remain inactive for more than six (6) months after refuse placements.	SWFP,WDR, PP		i	i	i		LC	c	LEA, RCDEH, RWQCB	2
	g. A landfill gas emissions and migration control system shall be installed to control all gas emissions.	SWFP,WDR, AC/PO,PP	i	i	i			LC	c	LEA, RCDEH, RWQCB, SCAQMD	1,2
	h. The foundation and vadose zone monitoring layer shall be placed a minimum of 50 feet above the highest historically known groundwater level. Landfilling operations shall be phased to avoid disposal in the deepest part of the East Pit for a minimum of 25 years after the start of landfilling operations, in order to record potential future higher groundwater levels. Prior to approval of landfilling within the east end of the East Pit (Planning Area No. 1b), a further environmental assessment must be performed, which includes submission of slope stability analysis and at a minimum, ground water investigations demonstrating the feasibility of the proposal in this area.	WDR,SWFP, PP	i	i				LB	al	LEA, RCDEH, RWQCB	1,2

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
& MITIGATION REPORTING/MONITORING PROGRAM CHECKLIST**

A. WATER QUALITY AND USE - Page 3 of 5

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	The operator should anticipate that prior to landfilling the East Pit, the bottom elevation shall be raised by filling with overburden or coarse tailing material to a level of at least 50 feet above the highest recorded ponding level. Waste shall not be deposited within Planning Area No. 1b without review by the Planning Commission and approved by the County Board of Supervisors. A permit revision from the LEA will be required for an expansion into the east end of the east pit.										
	i. A system of groundwater detection and monitoring wells consisting of at least six (6) down gradient wells and one (1) up gradient well shall be installed prior to initial landfill operations and monitored near the landfill margin and down gradient, in accordance with state and federal regulatory requirements.	WDR,SWFP, PP	i	i				LB,LC	d,e	LEA, RCDEH, RWQCB	2
	j. A foundation and vadose zone monitoring layer a minimum of three feet thick containing a lysimeter monitoring system will be installed to monitor the unsaturated zone beneath the landfill containment system.	WDR,SWFP, PP	i	i	i			LB,LC	d,e	LEA, RCDEH, RWQCB	2
2. Potential for windblown litter to pollute surface waters off-site.	a. Container-transported waste will be compacted to minimize the escape of refuse.	SWFP,MRF				i		LC,PC	e	LEA, RCDEH, RWQCB	2
	b. Closed containers will be used to transport waste to the working face of the landfill.	SWFP				i		LC,PC	e	LEA, RCDEH	2
	c. Waste will be compacted into the working face of the landfill as soon as practicable and covered promptly.	SWFP					i	LC	e	LEA, RCDEH	2
	d. A minimum of six inches of compacted soil shall be used to cover refuse cells as it is placed and will completely cover refuse at the end of each working day.	SWFP					i	LC	e	LEA, RCDEH	2
	e. A daily litter pickup and disposal program shall be implemented at the landfill area and in adjacent off-site areas.	SWFP,SP	i					LC	e	LEA, RCDEH, RCPD	2
	f. Litter control fencing will be installed around all landfill and waste-handling areas. A standard of zero escape of litter from the permitted landfill area shall be established.	SWFP,SP,PP	i	i				LB,LC	e	LEA, RCDEH, RCPD	1,2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
	g. Measures to control fugitive dust shall be implemented, that may include, but are not limited to, paving of haul roads, water or chemical treatment of dirt roads, duststorm watch, and cessation of all activities when instantaneous or average wind speeds exceed limits set by AQMD rules.	SWFP, AC/PO		i				i	T	e	LEA, RCDEH, APCD	2
	h. Truck and container wash water will be treated to remove pollutants and the water shall be recycled.	SWFP, WDR, NPDES	i	i				i	T	e	LEA, RCDEH, RWQCB	2
	i. A drainage control system will be installed to divert surface flows from the landfill area away from ponded water in the East Pit.	SWFP, WDR, NPDES, PP	i	i				i	LB, LC	e	LEA, RCDEH, RWQCB, RCFC, RCDB&S	2
3. Potential for storm water to come into contact with refuse and pollute groundwater surface waters, including the Colorado River Aqueduct.	a. Storm water from refuse disposal and handling areas will be collected and sent to on-site detention and evaporation basins or, if storm water has contacted refuse, it will be treated as leachate.	SWFP, WDR, NPDES, PP	i	i				i	LA, LB, LC	e	LEA, RCDEH, RWQCB, RCFC, RCDB&S	2
4. Wastewater collected at the landfill site and treated at the existing Eagle Mountain treatment plant could contaminate treatment plant discharge.	a. Incoming wastewater and washwater at the treatment plant shall be pretreated to remove oils, greases, and organics, to lower biological oxygen demand.	SWFP, WDR, NPDES	i	i				i	LC	e	LEA, RCDEH, RWQCB	2
5. Potential for runoff on completed landfill to permeate landfill mass and produce leachate.	a. A low-permeability final cover, as specified in Mitigation Measure A.1.e., shall be placed on completed side slopes with gradients no steeper than three to one and on the top of the landfill with gradients no less than three percent.	SWFP, WDR	i	i					LD	a	LEA, RCDEH, RWQCB	2
	b. The top layer of the final cover will consist of vegetative soil to assure revegetation for erosion resistance.	SWFP, WDR	i	i					LD	a	LEA, RCDEH, RWQCB	2
	c. A system of groundwater extraction and monitoring wells shall be installed, in accordance with Riverside County Ordinance No. 682, and EPA, Subtitle D, RCRA Regulations and/or Article 5, Chapter 15, of the California Water Code.	SWFP, WDR	i	i				i	T	e	LEA, RCDEH, RWQCB	2

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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A. WATER QUALITY AND USE - Page 5 of 5**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
6. Potential for water quality degradation from the landfill after its closure.	a. Groundwater monitoring, and any corrective actions on groundwater contamination, gas collection and control, and maintenance of landscaping and drainage shall be continued for 30 years, or as additionally required by State or Federal regulations after final closure, with a certified availability of funds for the above postclosure activities defined prior to initiation of each discreet landfill unit.	SWFP, AC/PO, WDR	i	i			i	LE	e	LEA, RCDEH, RWQCB, APCD	2
7. Potential for ground water overdraft.	a. The applicant shall install low-volume toilets, faucets, and shower heads in all future buildings, and retrofit all existing toilets, faucets and shower heads in all buildings within the project boundary.	SP	i	i				T	e	RCDB&S	1
	b. The applicant shall prepare a ground water overdraft status report on the Chuckwalla Basin every 5 years and submit the report to the County Board of Supervisors, summarizing ground water trends and revealing new and ongoing measures to minimize the impact.	SP	i				r	T	d	RCBS	2
	c. Truck and container wash water will be treated to remove pollutants and the water shall be recycled. (see A.2.h.)	SWFP, WDR, NPDES	i	i				T	e	LEA, RCDEH, RWQCB	2
	d. Landfill liner construction during evening hours in the summer months shall be encouraged to minimize moisture evaporation within the low-permeability clay-like soil layer.	SWFP, WDR, PP	i				i	T	a	LEA, RCDEH, RCPD, RWQCB	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
1. Potential impact to workers from exposure to household hazardous materials in the waste stream.	a. Through contracts with the landfill operator, all transfer station and material recovery facility (MRF) operators using the landfill will be required to develop a plan of operations including a waste inspection program that allows for the safe detection and removal of hazardous waste materials.	PP,MRF, MSWFP	r				i	PA,PC	e	LEA,RCDEH	2	
	b. A radioactivity detection device shall be employed at the landfill site to detect the presence of radioactive materials, which will be removed from the waste stream, stored, and transported to a safe disposal site according to applicable regulations.	SWFP,PP		i			r	i	LC	e	LEA,RCDEH	2
	c. All local waste delivered to the landfill shall be screened for the presence of hazardous materials at an on-site inspection station.	SWFP,PP		i				i	LC	e	LEA,RCDEH	2
	d. All incoming waste shall be subject to regulatory spot checks for hazardous materials.	SWFP,PP		i				i	LC	e	LEA,RCDEH	2
	e. The landfill operator shall develop and implement safety-enhanced operational procedures that allow for the safe handling of hazardous waste by trained personnel.	SWFP,PP		r					LC	e	LEA,RCDEH	1,2
2. Potential worker safety and explosion impacts from the migration of landfill gases into work areas and enclosed spaces.	a. A landfill gas collection and removal system will be installed at the landfill, in accordance with plans and specifications approved by the SCAQMD.	SWFP, AC/PO,PP	i	i			i	LA,LC,LE	e	LEA, RCDEH, SCAQMD	1,2	
	b. A composite liner including a high-density polyethylene flexible geomembrane to restrict downward and lateral movement of landfill gases will be installed on the bottom and sides of the landfill.	SWFP,PP	i	i			i	LB,LC	e	LEA, RCDEH	2	
	c. All new enclosed buildings constructed in the specific plan area within one mile of the ultimate landfill footprint shall have an impermeable membrane barrier below the foundation slab.	PP,BP	i	i					PA,PB	al,e	RCPD, RCDB&S	1
	d. All new enclosed buildings in the specific plan area within one mile of the ultimate landfill footprint shall have active or passive subfloor ventilation.	PP,BP	i	i					LC,PA,PB	al,e	RCPD, RCDB&S	1

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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B. PUBLIC HEALTH AND SAFETY - Page 2 of 4**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
	e. All new enclosed buildings constructed in the specific plan area within one mile of the ultimate landfill footprint shall have special explosion-proof seals for all utility conduits entering from below grade.	PP,BP	i	i				LC,PA,PB	al,e	RCPD, RCDB&S	1	
	f. All new enclosed buildings constructed in the specific plan area within one mile of the ultimate landfill footprint shall have monitoring probes in the subfloor environment to verify system effectiveness.	PP,BP	i	i				LC,PA,PB	al,e	RCPD, RCDB&S	1	
	g. Permanent subsurface LFG monitoring wells or detectors/alarms shall be placed near any existing and/or new enclosed structures within one mile of the ultimate landfill footprint when directed to do so by the RCDEH. The wells will be constructed to allow monitoring to a depth of 20 feet below grade.	SP,PP, SWFP	i	i				PA,LC, LE	e	RCDB&S, LEA, RCDEH	1,2	
3. Potential impacts from landfill gas migration on structures in the town of Eagle Mountain.	a. Wells to monitor soils to a depth of 20 feet will be placed on about 1,000-foot centers along the northern town perimeter.	SP,SWFP, PP,AC/PO	i	i				LC,LE, PA,PB	e	LEA, RCDED, RCPD, SCAQMD	1,2	
	b. An on-site emergency response plan will be developed by the landfill operator and submitted to RCPD, LEA and RCFD. This plan will include adequate staffing and equipment.	SP	i	i				LC,LE	e	LEA, RCDEH, RCPD, RCFD	2	
4. Potential for right-of-way fires along the railroad.	a. A vegetation/weed abatement program for the Eagle Mountain rail line from Ferrum Junction to the landfill site will be implemented, including regular inspection, selective thinning or removal of vegetation, and use of a ballast regulator instead of a herbicide.	S7	i				i	i	LC	e	USFWS	2
5. Potential for fires in the refuse load.	a. Incoming refuse will be screened and all burning or smoldering material will be removed or extinguished.	MRF, MSWFP, SWFP		i					PC	e	LEA,RCDEH	2
	b. Transport container waste will be compacted prior to loading to reduce air spaces capable of supporting combustion.	MRF, MSWFP		i					PC	e	LEA,RCDEH	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
6. Potential for subsurface fires at the landfill due to presence of combustible materials.	a. A landfill gas collection and control system will be installed and operated at the landfill.	SWFP, WDR, AC/PO,PP	i	i	i			LC	c	LEA, RCDEH, RWQCB, SCQAMD	1,2
	b. An emergency response plan for the landfill will be developed and implemented.	PP,SWFP			i			LB	c	RCFD,LEA, RCDEH,	1
7. Potential for surface fires at the landfill.	a. An emergency response plan for the landfill will be developed and implemented.	PP,SWFP	i		i			LB	c	RCFD,LEA, RCDEH	1
	b. The landfill operator will be required to contribute on a fair-share basis to necessary local fire service improvements.	SP	i	p				LB	e	RCFD	1,2
8. Potential increase in vectors for diseases.	a. Waste will be compacted into the working face of the landfill not more than one hour after it arrives at the working face.	SWFP,PP					i	LC	b	LEA,RCDEH	2
	b. A minimum of six inches of compacted soil shall be used to cover refuse cells as it is placed and shall completely cover refuse at the end of each working day.	SWFP,PP					i	LC	b	LEA,RCDEH	2
	c. The raven control program shall be implemented at the landfill, as described in the mitigation measures for biological impacts in this table.	S7					c,r	T	e	USFWS, CDFG	2
	d. A bird control program, in addition to the raven control program, to address other nuisance birds, ie. sea gulls, shall be implemented at the landfill site, in accordance with Title 14.	SWFP,PP	i					i	T	e	LEA, RCDEH, RCPD
9. Potential secondary impacts for waste handling workers to be exposed to small amounts of hazardous wastes at waste transfer stations and materials recovery facilities.	a. Contracts for transfers stations and materials recovery facilities to use the landfill will require inspection and screening of the waste stream, with safe-practice removal, handling, storage, and disposal of any hazardous materials.	MRF, MSWFP,PP					i	PC	c	LEA,RCDEH	2
10. Potential for exposing landfill workers to accident or harm from heavy equipment operations, noise, odors, and dust.	a. All employees will be trained in a standard set of safe operating procedures and provided a written manual.	SWFP,PP					i	PC	e	LEA,RCDEH	2
	b. On-site inspections will be conducted on a regular basis to ensure safe operating conditions.	SWFP,PP					i	PC	e	LEA,RCDEH	2

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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B. PUBLIC HEALTH AND SAFETY - Page 4 of 4**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
11. Potential for landfill workers to be exposed to LFG condensate due to accidental spills.	a. Training of workers in standard safety procedures will include the use of protective equipment, detailed job and operating descriptions, identification of safety equipment and procedures, training, and emergency response procedures and provided a written manual.	SWFP,PP					i	PC		LEA,RCDEH	2
12. Potential for workers to be exposed to landfill gas.	a. A landfill gas collection and removal system will be installed and applicable design features will be employed for landfill buildings as described earlier in this section.	SWFP,PP	i	i				LC,LD	e	LEA, RCDEH, RWQCB, SCAQMD	2
13. Potential for rail and truck accidents to spill waste.	a. Adequate staff will be maintained on-site to provide clean-up support to Southern Pacific workers and local emergency response agencies.	SP,SWFP	i				i	LC	e	LEA, RCDEH, RCPD	2
	b. Local and state emergency plans will be required by existing statutes to include appropriate responses to accidents involving transported wastes.	exist. statutes					i,r	T	c	RCPD,RCFD	2
14. Potential for delays in rail transport system due to catastrophic events or workers strikes.	a. Containers will be designed to be transported by truck as well as rail to allow alternate means of transportation to Eagle Mountain or an alternate landfill site.	SWFP,PP	i	i				LC	e	LEA,RCDEH	1
15. Potential for public safety.	a. If the transportation of vagrants to the site via rail becomes a problem, the operator shall take steps at appropriate rail terminals to prevent vagrants from boarding the train and unloading at the site. An annual report shall be provided to the Citizen Oversight Committee together with the actions taken for a period of 5 years, and as often thereafter as requested by the Committee.	SP					r	T	d	RCPD	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potential conflict between proposed and ongoing railroad operations.	a. Refuse trains will be scheduled with Southern Pacific on a contractual basis to prevent any conflict with ongoing rail operations.	SPac,SP	i				i	LC	a	RCPD	2
	b. Train operations will be scheduled during evening, nighttime, and early morning hours to avoid peak-hour vehicle traffic.	SPac,SP	i				i	LC	a	RCPD	2
2. Potential safety hazard at the proposed railroad crossing of Kaiser Road.	a. Flashing lights will be installed at the railroad crossing of Kaiser Road.	SP	i	i				LB	e	RCPD, RCDB&S, RCTD	1,2
	b. Train operations will be scheduled during evening, nighttime, and early morning hours to avoid peak-hour vehicle traffic.	SPac,SP	i				i	LC	a	RCPD	2
3. Degradation of street surfaces could occur due to the weight of the refuse laden trucks.	a. Maintenance of Eagle Mountain Road will be funded by County revenue generated by the propose project on a fair share basis.	SP	i			p		T	e	RCTD	1,2
4. Potential conflict of traffic at the Eagle Mountain Road Extension/Kaiser Road intersection.	a. Two-way stop signs will be installed at the new Eagle Mountain Road extension/Kaiser Road intersection.	SP	i	i				T	a	RCPD, RCDB&S	1,2
5. Concerns of Coachella Valley residents over increased traffic due to trucks hauling waste to the landfill.	a. The limit on trucks hauling waste from all sources to the landfill will be 100 roundtrips per day.	SP	i				r	LC	e,c	RCPD	1,2
	b. Three years after start-up of the landfill, there will be no truck-hauling of waste from outside the desert communities.	SP	i				r	LC	e,c	RCPD	1,2
	c. The limit on trucks hauling waste from the desert communities to the landfill will be 100 per day throughout the life of the project.	SP	i				r	LC	e,c	RCPD	1,2
	d. There will be no limit on the number of trucks employed during emergency conditions which interrupt railroad operations.	SP	i				r	LC	e,c	RCPD	1,2

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D. AIR QUALITY - Page 1 of 7**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
1. Supervision of air quality monitoring and reporting program.	a. A qualified consulting air quality specialist approved by the County will be retained by the landfill operator to supervise all aspects of the air quality mitigation monitoring and reporting program.	SP	i			r,c	r,c	T	e	RCPD, BLM, NPS	1,2	
	b. The qualified air quality specialist will periodically file a report on the status of all air quality mitigation activity with the County of Riverside and the SCAQMD.	SP	i			r		T	d	RCPD, SCAQMD, NPS	1,2	
2. Emission of pollutants from equipment with internal combustion engines during site preparation and initial construction.	a. Operational measures to control emissions will be implemented, such as limiting idling time for engines and conducting regular preventative maintenance (MC-1).	SP		i			r	LB,LC	e	RCPD	2	
	b. All diesel engines will use low sulfur and low aromatic fuel meeting Calif. standards for on-highway motor vehicles (MC-2).	SP		i		r		LB/LC	e	RCPD	2	
	c. The feasibility of using heavy-duty diesel equipment with engines that are certified by the CARB for use in on-highway trucks will be evaluated prior to initial construction, and such equipment will be used, if feasible (MC-3).	SP			i			r	LB,LC	e	RCPD	2
	d. Turbocharger and intercooled diesel engines with retarded injection timing will be used when available (MC-4).	SP			i			r	LB,LC	e	RCPD	2
	e. An electric version of the temporary asphalt plant will be used (MC-5).	SP	i	i					LB,LC	al	RCPD	2
	f. An electric version of the temporary concrete batch plant will be used (MC-6).	SP,AER	i	i					LB,LC	al	RCPD	2
3. Fugitive dust emissions during site preparation and initial construction.	a. Non-toxic chemical dust suppressants and/or water will be applied to all unpaved roads and parking lot surfaces during construction operations (MC-7).	SP,AER		i				LB	e	RCPD	2	
	b. All trucks using off-site paved haul roads will have covered loads or maintain a two-foot freeboard height (MC-8).	SP		i			i	LB,LC	e	RCPD	2	
	c. Soil will be prewatered prior to excavation (MC-9).	SP,AER		i			i	LB	e	RCPD	2	

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	d. Spray nozzles or filters will be used at all open transfer points at the temporary asphalt plant (MC-10).	AC/PO	i	i				LB,LC	e	SCAQMD	2
	e. Spray nozzles or filters will be used at all open transfer points at the temporary concrete plant (MC-11).	AC/PO	i	i				LB,LC	e	SCAQMD	3
	f. Inactive areas disturbed by construction will be compacted and chemically treated or protected with a fabric cover (MC-12).	SP,AER		i	i			LB,LC	e	SCAQMD, RCPD	2
	g. Paved haul roads used during construction will be mechanically swept to remove the buildup of loose material (MC-13).	SP,AER				i		LB,LC	e	SCAQMD, RCPD	2
	h. All excavation, grading, and soil removal operations during the construction period will comply with SQACMD Rule 403 (MC-14).	AER	i	i				LB	e	SCAQMD	2
	i. Blowsand areas adjacent to paved haul roads will be chemically stabilized (MC-15).	SP	i	i				LB	e	RCPD	2
4. Fugitive dust impacts during landfill construction and operation.	a. Two permanent PM10 monitoring stations will be installed either pursuant to provisions in SCAQMD Rule 403 or at locations chosen in consultation with NPS.	AER,SP		i	i			T	e	RCPD, SCAQMD	2
5. Truck engines and diesel locomotive exhausts will produce emissions during transport of solid waste to the landfill.	a. Waste haul trucks will comply with all applicable California motor vehicle pollution control regulations (AQ-1).	AER		i				LC	e	ARB,DMV, CHP	1,2,3
	b. Waste haul trucks will use diesel fuel which complies with all applicable California Air Resources Board (CARB) regulations for on-highway diesel motor vehicle fuel (AQ-2).	AER		i				LC	e	ARB	2,3
	c. Waste haul trucks will be subject to random checks for excessive smoke (AQ-3).	AER					i	LC	e	SCAQMD, CHP	2,3
	d. Waste haul trucks will be subject to periodic checks for excessive smoke and emissions control system tampering (AQ-4).	AER		i			i	LC	e	ARB,CHP	2,3
	e. Waste haul trucks will be low emission vehicles as defined in the CARB regulations (AQ-5).	AER		i				LC	e	SCAQMD, ARB,DMV	1,2,3

Parenthetic notation corresponds to FEIR/EIS air quality technical report list of mitigation measures.

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	f. Diesel locomotives on the Eagle Mountain railway will be shut down when the engines are not needed for an hour or more and will receive regular preventative maintenance, in accordance with manufacturers' recommendations (AQ-6).	SP,	i	i				LC	e	RCPD SCAQMD	2
	g. Diesel locomotives on the Eagle Mountain railway shall be fueled with diesel fuel which meets the requirements of CARB for on-highway motor vehicle diesel fuel (AQ-7).	SP,AER	i	i				LC	e	RCPD, SCAQMD	2
	h. Diesel locomotive engines purchased for use on the Eagle Mountain railway shall comply with all applicable state and federal emissions control requirements (AQ-8).	AER		i				LC	al	USEPA, ARB	1,2
	i. Two feasibility studies within six months of certification of the EIR/EIS will be performed to evaluate the potential for use of selective catalytic reduction (SCR) or natural gas fuels to reduce locomotive NOx emissions to approximately 2 grams per brakehorsepower-hour at maximum rated load. Either SCR or natural gas fuel option shall be selected by the County Board of Supervisors after input and advise from SCAQMD and the landfill operator within six months of receipt of the feasibility study for final engineering and installation on one locomotive engine operating on the E.M. railway. The County's preference for the use of natural gas due to lower air emissions will be considered in this decision. The low emission locomotive demonstration program shall be operated for up to four years upon commencement of landfilling operations. A written report shall be provided by the operator to the Board of Supervisors which describes the status and the effectiveness of the demonstration program.	SP	i,r	i				LC	al	RCPD SCAQMD	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	<p>Upon achievement of the demonstration program objectives and at least a fifty percent (50%) reduction in NOx emissions from uncontrolled levels, the demonstration engine shall be routinely operated with the installed low emission design. The selected low emission system shall be installed on a second diesel locomotive engine within 12 months of the completion of the demonstration phase and system installations shall continue at 12 month intervals until all E.M. railway locomotives have been equipped with the low emission control system.</p> <p>If the demonstration program is unsuccessful or not feasible, alternatively, the NOx emissions from the diesel locomotives used on the E.M. railway shall not exceed 6 gm/bhp-hr, or levels allowed by the CARB, whichever is more stringent (AQ-9).</p>										
	j. A cost-effectiveness study of electrifying the Eagle Mountain railway will be conducted when landfill gas generation is sufficient to warrant the construction of an energy recovery facility at the landfill (AQ-10).	SP	i,r	i				LC	al	RCPD	2
	k. If upon completion of the initial cost effectiveness study of the electrification of the Eagle Mountain rail line, it is determined such electrification is infeasible, subsequent studies shall be prepared every 10 years thereafter. However, if, upon completion of any of the subsequent studies, it is determined that the electrification of the Eagle Mountain rail line is feasible, the applicant shall electrify said rail line within 5 years after approval of the environmental review for its installation.	SP				i		T	d	RCPD	2
6. Air pollutants will be generated by the exhausts of heavy mobile and stationary equipment used in handling solid waste and materials.	a. Engines will be shut down if equipment will be idle for 15 minutes or longer (AQ-11).	SP	i	i				LC	e	RCPD,LEA, RCDEH	1,2

Parenthetic notation corresponds to FEIR/EIS air quality technical report list of mitigation measures.

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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D. AIR QUALITY - Page 5 of 7**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	b. Machines and operators will be scheduled to match the anticipated waste volumes, and the number of container haulers will be matched to the container hauling capability (AQ-11).	SP	i	i				LC	e	RCPD	2
	c. Diesel-fueled heavy mobile and stationary equipment will be maintained in accordance with the engine manufacturers recommendations (AQ-11).	SP	i	i				LC	e	RCPD	2
	d. A record will be maintained of all visual instrument checks for excessive smoke, as well as related repairs (AQ-11).	SP	i	i				LC	e	RCPD	2
	e. All diesel-fueled equipment at the site will use diesel fuel that meets the requirements of the CARB for on-highway motor vehicle diesel fuel (AQ-12).	SP	i	i				LC	e	RCPD	2
	f. The feasibility of purchasing equipment with engines certified by the CARB for use in on-highway trucks will be evaluated in implemented, if feasible (AQ-13).	SP	i	i				LC	e	RCPD	2
	g. If there are no suitable on-highway equivalent engines, turbocharged and intercooled engines for any diesel-fueled landfill equipment will be purchased and maintained with retarded injection timing (AQ-14).	SP	i	i				LC	e	RCPD	2
	h. All landfill equipment will comply with all applicable federal and state emission control standards (AQ-15).	AER	i	i				LC	e	USEPA, ARB	2
	i. Wherever available, electric versions of landfill equipment, including overhead cranes, crushers, conveyors, and pugmills will be used. Where not available, alternative fuel technology will be used depending on air permitting standards (AQ-16).	SP, AC/PO	i	i				LC	e	RCPD, SCAQMD	1,2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	j. A study covering both economic and technical aspects shall be prepared every 10 years for the potential electrification of all types of on-site mobile and stationary equipment. If it is determined that the electrification of any of the equipment is feasible, the applicant shall electrify said equipment within three (3) years.	SP				i		T	d	RCPD	2
7. Potential emissions of air pollutants due to landfill gases.	a. When the flare gas generation rate exceeds five million (5,000,000) cubic feet per day (MCFD), an analysis of the technical and economic feasibility of recovering energy from the flared landfill gas will be conducted (AQ-17).	SP,AC/PO	i	i			i	LC,LE	e	RCPD, SCAQMD, USEPA	1,2
	b. If the analysis indicates that energy recovery is feasible, energy recovery facilities shall be installed and operating before the landfill gas generation rate exceeds 10 MCFD (AQ-17).	SP,AC/PO	i	i			i	LC,LE	c	RCPD, SCAQMD, USEPA	1,2
	c. If the analysis indicates that energy recovery is not feasible and the landfill gas generation rate exceeds eight MCFD, an oxidation catalyst system will be retrofitted to the flares which is capable of achieving at least an 80 percent reduction in carbon dioxide emissions and a 50 percent reduction in non-methane hydrocarbon emissions before the landfill gas generation rate exceeds 10 MCFD (AQ-17).	AC/PO	i	i			i	LC,LE	e	SCAQMD, USEPA	1,2
	d. If an energy recovery system is not feasible and no oxidation catalyst system is commercially available before the landfill gas generation rate exceeds 10 MCFD, revised applications will be submitted to the air pollution control agencies reflecting the higher carbon monoxide and non-methane hydrocarbon emission rates from the flares (AQ-17).	AC/PO	i	i			i	LC,LE	e	SCAQMD, USEPA	1

Parenthetic notation corresponds to FEIR/EIS air quality technical report list of mitigation measures.

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	e. If an energy recovery facility is not constructed and the landfill gas generation rate exceeds 45 MCFD, a urea injection system (or equivalent) capable of achieving at least a 30 percent reduction in oxides of nitrogen emissions will be retrofitted before the landfill gas generation rate 50 MCFD (AQ-17).	AC/PO	i	i			i	LC,LE	e	SCAQMD, USEPA	1,2
8. Excessive fugitive dust from handling and transfer of solid waste and cover material.	a. Water will be applied as a dust suppressant to all unpaved road and staging area surfaces used temporarily (30 days or less) during landfill operations (AQ-18).	AER,SP	i	i			i	LC	e	RCPD, SCAQMD	2
	b. Chemical dust suppressants will be applied over a base of compacted coarse tailings on all unpaved road surfaces used more than 30 days, but periodically reconstructed or relocated (AQ-19).	AER,SP	i	i			i	LC	e	RCPD, SCAQMD	2
	c. All permanent on-site roads will be paved and periodically cleaned with mechanical sweepers (AQ-20).	AER,SP,PP	i	i	i			LC	e	RCPD, SCAQMD	2
	d. Tailing piles will be prewatered prior to excavation (AQ-21).	AER,SP	i	i			i	LC	e	RCPD, SCAQMD	2
	e. Water will be applied as a dust suppressant prior to clearing material from pit benches, excavating landfill gas collection ditches, reconstructing transitional roads, and any other operations which could result in dust emissions visible from locations outside the project boundary (AQ-22).	AER,SP	i	i			i	LC	e	RCPD, SCAQMD	2
	f. All haul trucks will pass through on-site wheel-washing stations prior to leaving the landfill.	SP	i	i			i	LC	e	RCPD, SCAQMD	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Landfilling would render existing iron ore reserves unrecoverable.	a. Landfill operations will be phased to assure that the iron ore resources most feasible to mine are impacted last to allow for recovery, if economically justified.	SP,SWFP	i	i				LC	e	RCPD,LEA, RCDEH	1,2
2. Potential incompatibility with existing residential and correctional uses surrounding the landfill.	a. Landfill truck traffic will be restricted to Eagle Mountain Road and Eagle Mountain Road Extension only.	SP	i				i	T	e	RCPD,LEA, RCDEH	2
	b. All landfill structures will be set back a minimum of 25 feet from the landfill boundary.	SP,PP,BP	i	i			i	LA,PA, T,PB	e	RCPD, RCDB&S	1,2
	c. All landfill structures will be limited to a maximum height of 60 feet.	SP,PP,BP	i	i				LA,PA, T,PB	e	RCPD, RCDB&S	1,2
	d. The base of the landfill be at lease one half-mile away from the nearest residences.	SP,PP	i	i				LA,LC	e	RCPD,LEA, RCDEH	1,2
	e. The landfill will operate under a requirement to employ the "Best Available Control Technology" to control fugitive dust, including visible dust, under South Coast Air Quality Management District rules.	AC/PO	i	i				LA,LC, LD	e	SCAQMD	1,2
	f. The appearance of the later phases of the landfill will be designed to blend with nearby areas by revegetation and control of color, tone, and texture of the final cover.	SP	i	i				LC,LD, LE	e	RCPD	1,2
3. Inconsistency of proposed landfill operations with the existing General Plan land use designation and zoning.	a. Approval of a County of Riverside General Plan Amendment and Rezone will be required for project implementation.	Project Approval			i			LA	a	RCPD	1
4. Conflict between proposed use and the current BLM land classification.	a. Approval of a land exchange between BLM and the project proponent that would divest the BLM of reversionary interest in the project site will be required for project implementation.	Project Approval			i			LA	a	RCPD	1
5. Potential incompatibility of proposed transfer stations with existing or surrounding uses.	a. Siting of all transfer stations will require approval of local jurisdictions, including environmental review under CEQA.	*	*	*	*	*	*	*	*	*	*

*Local jurisdiction review and approval process.

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
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F. SURFACE DRAINAGE/FLOODING - Page 1 of 2**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potential for increased leachate and adverse effect on groundwater if storm water infiltrates the landfill.	a. A temporary drainage ditch will be constructed around the up-slope perimeter of each working area of the landfill to divert storm water flows around and away from the fill area as filling occurs.	SWFP,WDR, PP	i	i			i	LC	e	LEA, RCDEH, RWQCB	2
	b. As each area is filled, it shall be capped with a low-permeability soil cap. Capped areas will have side slopes with an average steepness of 3:1 with intervening benches. Bench drains shall be constructed to discharge surface runoff into perimeter drains north and south of the landfill.	SWFP,PP		i			i	LC	e	LEA,RCDEH	2
	c. All drainage facilities within the waste management unit will be sized to handle runoff from a storm of 100-year frequency and 3-hour duration and a 500-year frequency will be adopted for review of channel freeboard design.	SWFP, NPDES,SP, PP	i	i			i	LC	e	LEA, RCDEH, RWQCB, RCFCD	2
	d. For Stage 1 perimeter drainage, Eagle Creek will be piped under the haul road south of the landfill, the existing upper detention basin will be opened, and a channel will be constructed along the north side of the haul road to discharge into the west bowl of the East Pit.	SP,PP, NPDES	i	i			i	LB	a	RCPD, RCFCD, RWQCB	2
	e. For Stage 2 perimeter drainage, Bald Eagle Creek will be intercepted by constructing a perimeter channel on the north edge of the landfill to discharge into a natural watercourse. On the south, the Eagle Creek drainage will be extended to discharge into the east bowl of the East Pit.	SP,PP, NPDES	i	i			i	PB	a	RCPD, RCFCD, RWQCB	2
	f. For permanent, completed landfill perimeter drainage on the south, a channel and detention system will be constructed along the southern borders of Planning Area Nos. 4 and 5 and under the railroad in a box culvert to discharge into a natural streamcourse through an energy-dissipating structure designed to avoid erosive velocities at the MWD aqueduct crossing.	SP,PP, NPDES	i	i			i	PB	a	RCPD, RCFCD, RWQCB	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	g. For permanent, completed landfill perimeter drainage on the north, runoff from the northern slope of the landfill and Bald Eagle Creek will be collected in a channel and detention system to the east through an energy-dissipating structure.	SP,PP, NPDES	i	i				PB	a	RCPD, RCFCD, RWQCB	2
	h. Final landfill slope will be a minimum of three percent to promote drainage.	SWFP,PP	i	i				LD	a	LEA,RCDEH	2
	i. Final landfill cover will consist of a minimum thickness of four and one-half feet, including a minimum two-foot thick compacted soil foundation layer, a minimum 18 inch-thick low-permeability soil layer and minimum one-foot thick vegetative layer which maximizes the stability of the slope for the longest term possible, with minimum maintenance. The final cover shall include small islands of thickened vegetative layer and plantings throughout the landfill which will support local microbiologic resources. Also see A.1.e.	SWFP,PP	i	i				LD	a	LEA, RCDEH, RWQCB	2
2. Potential for contamination of runoff by storm water contact with refuse in landfill operational areas.	a. Storm waters that would enter operational areas from off-site will be intercepted and conducted into existing, modified, or constructed drainage systems discharging into natural watercourses off-site.	SWFP, WDR, NPDES	i	i			i	LC	e	LEA, RCDEH, RCFCD, RWQCB	2
	b. Runoff from landfill operational areas handling refuse will be collected and diverted into a detention facility for testing. Uncontaminated runoff will be routed into the storm channel system. Contaminated runoff will be classified as leachate and processed through a onsite treatment facility.	SWFP,WDR, NPDES	i	i				LC	e	LEA, RCDEH, RCFCD, RWQCB	2
3. Flooding, erosion, and effects on biological resources from discharge of storm waters collected from around the landfill.	a. In all cases, the drainage system will be designed to discharge into natural watercourses through energy-dissipating structures with peak flows reduced below per-mining conditions.	SP,PP, NPDES	i	i				T	e	RCDB&S, RCFCD, RWQCB	2
4. Potential for flooding in Eagle Mountain townsite as southerly flow patterns are reestablished because of diversion of storm waters around the landfill.	a. Collection, diversion, and discharge of storm waters through the landfill drainage system will eliminate the potential for flooding of the Eagle Mountain townsite due to construction of the landfill.	SP	i	i				T	e	RCFCD	1

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
A. General 1. Supervision of biological monitor and reporting program.	a. A qualified consulting biologist will be retained by the landfill operator to supervise all aspects of the biological mitigation monitoring and reporting program in cooperation with the NPS/BLM monitoring team.	SP	i			r,c	r,c	T	c	RCPD,BLM, USFWS, CDFG	1,2
	b. The consulting biologist will file annual reports on the status of all biological mitigation activity and related information for the preceding year with the County of Riverside, the BLM, the CDFG, and the NPS.	SP	i			r		T	d	RCPD,BLM, USFWS, CDFG,NPS	2
B. Desert pupfish 1. Impacts to desert pupfish populations during repair and maintenance of the rail line near the Salt Creek tributary.	a. Plans for construction or major maintenance will be reviewed by a qualified biologist and will include designs and specifications that will avoid impacts to desert pupfish, to the satisfaction of the USFWS and CDFG.	S7	i			i		PA	al	USFWS, CDFG	2
	b. Storage and staging areas will be placed in locations which will not affect the habitat, and measures to avoid any discharge of pollutants will be incorporated.	S7	i	i		i		PA,PB, PC	al	USFWS, CDFG	2
	c. Construction activities will be prohibited during the fall when pupfish populations are most restricted and vulnerable.	S7	i	i		i		T	b	USFWS, CDFG	2
	d. A qualified biologist will be retained to monitor any maintenance work conducted on or near pupfish habitat.	S7				i		T	c	USFWS, CDFG	2
2. Potential impacts to desert pupfish during weed abatement program.	a. All weed/plan removal will be done by hand. No herbicides or other chemicals will be used.	S7				i		T	b	USFWS, CDFG	2
3. Possible but unlikely impact on pupfish from train operations.	a. Data from ongoing CDFG surveys of pupfish in the Salt Creek drainage will be assessed to determine whether railroad operations are affecting pupfish.	S7					c	PA,PC	c	USFWS, CDFG	2
	b. If the assessment of data suggests impacts on pupfish, corrective actions will be developed in consultation with USFWS and CDFG.	S7					c	PC	c	USFWS, CDFG	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
4. Potential impacts to desert pupfish in the Salt Creek habitat area from a railroad accident.	a. In the event of an accident near pupfish habitat, a biologist will be included as a response and clean-up team member and USFWS, BLM, and CDFG will be notified immediately.	S7	i	i				PA	a	USFWS, CDFG	1
	b. Measures to restore the pupfish habitat in Salt Creek and its tributary in the event of an accident shall be incorporated as part of the response.	S7				i	c	PC	c	USFWS, CDFG	2
	c. If restocking of pupfish is required in the aftermath of an accident, the nearest suitable genetic strain of pupfish will be the source of the transplantation. Potential restocking sources shall be reported to the USFWS at 5 year intervals.	S7		i				PA,PC	c	USFWS, CDFG	2
	d. All emergency procedures will be proposed to and approved by USFWS and CDFG prior to implementation.	S7					c,r	T	c	USFWS, CDFG	2
	e. Reports of all emergency procedure results will be submitted to the USFWS and CDFG upon completion.	S7			r			PD	c	USFWS, CDFG	2
C. Desert tortoise 1. Possible direct impacts on tortoises during construction, and loss of 150 acres of tortoise habitat, from improvements and widening of Eagle Mountain Road.	a. A preconstruction survey will be conducted by a qualified biologist who will remove all tortoises within the 150-foot construction zone to a safe distance (300 feet) in the immediate vicinity.	S7				i		PA	a	USFWS, CDFG, RCDB&S	1
	b. The landfill operator will purchase 375 acres of tortoise habitat selected BLM and transfer ownership of the habitat to BLM. All compensation acreage will be within the Chuckwalla Management Area.	S7			c			PD	a	USFWS, CDFG	1
2. Possible impacts from predation on juvenile tortoises by ravens, coyotes, kit foxes, and other predators attracted to the landfill.	a. A raven monitoring program, including a minimum of two years of preoperation monitoring, will be developed and enacted in conformance with BLM methodologies. Monitoring of ravens will continue throughout the life of the landfill project or until BLM, USFWS, and CDFG determine it is no longer necessary.	S7					c,r	T	e	USFWS, CDFG	2
	b. The perimeters of all landfill and waste handling areas will be fenced with fencing designed to exclude predators such as coyotes and kit foxes.	S7,PP	i	i				T	c	RCDB&S, USFWS, CDFG	1

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
	c. A minimum six-inch covering of dirt/tailings will be placed over deposited refuse on a daily basis to minimize attracting ravens to refuse.	SWFP,PP					i	LC	b	LEA,RCDEH	2	
	d. A nonlethal raven control program will be conducted, including hazing at the landfill site, prompt removal of road-killed wildlife along access roads, and the possible use of bird repellent methyl anthranilate.	S7					c	LC	b	USFWS, CDFG	2	
	e. If necessary, and subject to the approval of BLM, USFWS, and CDFG, a raven control program will be implemented that may include nest destruction, shooting, poisoning and alterations of landfill operations.	S7					c	LC	b	USFWS, CDFG	2	
	f. A raven monitoring committee will be established to oversee the raven monitoring and control program.	S7					c	LC	b	USFWS, CDFG,NPS	2	
3. Potential loss of desert tortoises during regular maintenance of rail track.	a. Prior to scheduled track maintenance, all occupied burrows within 100 feet of the track will be examined for the presence of tortoises and marked by a qualified biologist. Any burrow that collapses during repair and maintenance activities will be immediately excavated, and any tortoise found will be translocated to an artificial burrow no less than 300 feet from the original burrow site.	S7		i			i	PA	al	USFWS, CDFG	2	
	b. A qualified biologist will translocate any above-ground tortoises found within the rail corridor during repair activities to an abandoned or artificial burrow no less than 300 feet from the rail line, if determined necessary.	S7		i			i	PB	al	USFWS, CDFG	2	
	c. During maintenance and repair to the railroad, the storage of equipment and materials, parking of vehicles, and other staging activities will be confined to three currently disturbed sites at Ferrum, Red Cloud and Summit.	S7		i	i			i	PB	b	USFWS, CDFG	2
	d. All weed control within the right-of-way will be done by hand. No herbicides will be used.	S7		c				i	T	e	USFWS, CDFG	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
4. Potential impact to desert tortoise populations due to train kills of tortoises and fragmentation of habitat by operation of the Eagle Mountain Railroad.	a. Existing culverts will be cleaned out and repaired under the rail line to allow use as crossings by tortoises.	S7		i		i		LA	a	USFWS, CDFG	2
	b. At an appropriate interval before each train trip on the Eagle Mountain rail line, a qualified biologist will survey and remove tortoises on or adjacent to the railroad right-of-way. Removed tortoises will be placed off the rail line berm.	S7				i		PA	af	USFWS, CDFG	2
	c. Records will be evaluated within three years to assess optimum locations for culverts and barriers, if needed. A barrier/culvert system will be constructed at appropriately identified locations.	S7				c		PC	c	USFWS, CDFG	2
	d. Ballast will be placed between the tracks at 100-foot intervals in tortoise habitat areas to allow tortoises caught between the tracks to escape.	S7	i	i				PB	af	USFWS, CDFG	2
	e. A long-term tortoise population monitoring program utilizing sampling methods approved by the USFWS adjacent to the E.M. Railroad and Eagle Mountain Road rights-of-way will be developed to monitor changes in tortoise population as the project proceeds. This monitoring program will continue for the life of the project.	S7	c				i	T	e	USFWS, CDFG	2
5. Potential loss of desert tortoises due to road traffic.	a. Tortoise-proof barriers will be installed on both sides of Eagle Mountain Road for the first four miles north of Interstate 10.	S7	i	i				PB	a	USFWS, CDFG, RCDB&S	1,2
	b. Culverts will be installed under Eagle Mountain Road at a minimum of one per mile of road.	S7	i	i				PB	a	USFWS, CDFG, RCTD	1,2
	c. A qualified biologist will monitor Eagle Mountain Road and Kaiser Road for tortoise activity throughout the life of the project.	S7		i				T	c	USFWS, CDFG	2
	d. Biologists will survey Eagle Mountain Road on a daily basis and tortoise encountered will be moved 300 feet from the right-of-way, including tortoises reported by truck drivers and local residents.	S7		i				T	c	USFWS, CDFG	2

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
	e. A speed limit of 35 miles per hour will be set and enforced along Eagle Mountain Road until barriers are in place.	SP	i	i				PA,PB	a	RCPD, RCDB&S	1
	f. A mandatory local worker and truck driver education program will be implemented prior to commencement of landfill operations, with voluntary participation by townsites residents.	SP,S7	i				r	T	c	USFWS, CDFG,RCPD	1,2
6. Potential cumulative impacts to desert tortoise regional population from habitat fragmentation and raven predation.	a. Measures described above will be implemented to mitigate potential cumulative impacts from habitat fragmentation and raven predation due to this project. Development of a desert tortoise management plan for the Joshua Tree National Monument and closure of the Desert Center landfill would also help mitigate cumulative impacts, but these measures cannot be implemented as a condition of this project. All mitigation measures implemented for this project will be altered, if necessary, to conform to the USFWS Desert Tortoise Recovery Plan .	See C.2.4. & 5. above									
7. Indirect impacts to tortoises associated with an increase in human activity including vandalism, illegal collection, and off-road-vehicle use.	a. A mandatory local worker and truck driver education program with voluntary townsites resident participation will be implemented.	See C.5.f. above									
D. California leaf-nosed bat 1. Impacts to the California leaf-nosed bat could occur due to loss of roost in the large adit location in an area to be landfilled in approximately 35 years.	a. Spring and winter monitoring surveys of bat activity at the adit will be conducted prior to commencement of landfill operations.	S7		i			r	LA	c	USFWS, CDFG	2
	b. Monitoring will be continued until the landfill reaches the area of the adit.	S7		i			r	PB,PC	c	USFWS, CDFG	2
	c. When filling reaches the adit, the mouth of the adit will be extended upward and/or outward above any landfill deposits.	S7		i		i	r	PC	a	USFWS, CDFG	2
	d. The conduit material used to extend the adit will be impermeable to landfill leachate and gas. An impermeable liner will be used if necessary.	S7		i		i		PC	a	USFWS, CDFG	2
	e. The adit entrance will be gated to allow free exit and entry of bats, but prevent human intrusion.	S7	i	i				PA,PB	a	USFWS, CDFG	2

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
H. Nelson's bighorn sheep 1. Loss of three permanent and one temporary bighorn sheep watering sources.	a. A preconstruction telemetry study will be conducted to identify new locations to place permanent water sources, based on herd movements.	S7				i,r		LA	a	USFWS, CDFG	2
	b. Three new permanent water sources will be placed at sites approved by BLM and CDFG away from the mine site.	S7		i	i,r			LA, LB	a	USFWS, CDFG	2
	c. Buzzard Springs will be rehabilitated and cleared of tamarisk.	S7		i	r			LA, LB	a	USFWS, CDFG	2
	d. If necessary, sheep will be translocated to areas near the new water sources.	S7					i,c	LA, LB, LC	e	USFWS, CDFG	2
	e. New and rehabilitated water sources will be maintained through the life of the landfill and replaced if necessary.	S7		i				T	e	USFWS, CDFG	2
	f. Telemetry studies will be continued after operations begin to assess sheep use of new watering sources until USFWS and CDFG are satisfied that sheep water-source use has stabilized.	S7				r		c	LC	a	USFWS, CDFG
2. Loss of about 994 acres of bighorn sheep habitat due to project implementation.	a. Creation and rehabilitation of water sources will allow expansion of sheep ranges into new habitat.	See H.1.a.-f. above									
	b. Approximately 744 acres of bighorn sheep habitat on-site will be preserved in open space as usable habitat and a buffer area between the landfill and relocated sheep population.	S7,SP,PP	i					i	LA	a	USFWS, CDFG,RCPD
3. Potential impacts from increased human presence, including landfill operations, residential uses, poaching, pets, and domestic livestock.	a. Information on bighorn sheep will be incorporated in the mandatory local worker and truck driver educational program described above as mitigation for desert tortoise impacts.	See C.5.f. above									
	b. Only authorized individuals will be allowed to possess firearms on the landfill site.	S7,SP	i	i				T	e	USFWS, CDFG,RCPD	1,2,3
	c. Dogs will be prohibited on the landfill site unless they are confined or restrained.	S7,SP	i	i				T	b,e	USFWS, CDFG,RCPD	1,2,3

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potentially expansive soils may occur in the fine tailing storage lagoons and in areas underlain by alluvial material.	a. Soils underlying the landfill footprint will be evaluated by an geotechnical engineer and/or an engineering geologist and area with expansive soils will be subject to appropriate mitigation before landfilling, such as selective or remedial grading.	SWFP	i	i				LA, LB	a	LEA, RCDEH	2
2. Instability of manufactured slopes in bedrock and alluvial areas of the East Pit.	a. As grading for the landfill occurs, a geotechnical engineer and/or engineering geologist will determine safe slope angles and maintain slopes within this range, with flattening of slopes or construction of fill buttresses as needed.	SWFP	i	i				LA, LB	c	LEA, RCDEH	2
	b. A geological engineer and/or engineering geologist will assure that the liner is placed against safe slope angles.	SWFP	i	i				LA, LB	c	LEA, RCDEH	2
3. Potential for settlement in waste rock dumps northeast of the East Pit and loose alluvium in the eastern project areas.	a. Unsuitable soils will be excavated and/or recompact prior to liner construction in areas of potential settlement.	SWFP	i	i				LA, LB	c	LEA, RCDEH	2
4. Potential slope failure and dislodgment of loose materials from existing manufactured slopes in the strong seismic event.	a. Loose rock and materials will be progressively scaled from benches above the working face of the landfill.	SWFP	i	i				LA, LB	c	LEA, RCDEH	2

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I. VISUAL, RECREATION, AND WILDERNESS RESOURCES - Page 1 of 3**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potential visual contrast between the landfill and the characteristics of surrounding landscape.	a. Shape and mass of the landfill area will blend with nearby forms more than the existing graded areas, and color, tone, and texture of the final cover will be designed to reduce contrast with adjacent undisturbed area.	SP	i	i				LD	a	RCPD	2
	b. Grading and landfill limits will be clearly staked or fenced, construction access will be controlled, and ancillary activities will be confined to existing disturbed areas wherever possible to minimize additional disturbance of the native landscape.	SP,PP	i	i				T	e	RCPD, RCDB&S, LEA,RCDEH	2
	c. Final cover will include a top layer of vegetation soil containing a seed mix of native plants to encourage regrowth of native plant material.	SP	i	i				LD	e	RCPD	2
2. Potential visual impacts from Desert Center, Lake Tamarisk, Interstate 10, and State Highway 177.	a. Visual contrast between the landfill and surrounding area will be reduced as described for the preceding impact.	SP,PP	i	i				T	e	RCPD	2
	b. Operations will be phased so that natural topography, distances, and existing vegetation will screen the initial phases of landfill operations. Landforms created by the final phases and completed landfill will approximate original topographic conditions.	SP,SWFP	i	i				LC	e	RCPD	1,2
	c. Truck traffic to the container handling yard will use I-10 and Eagle Mountain Road rather than going through Desert Center on Kaiser Road past Lake Tamarisk and other residences.	SP	i				i	LC	e	RCPD, RCDB&S	1,2
3. Potential impacts of the visibility of the landfill from the townsite of Eagle Mountain.	a. The base of the landfill will be at least one half-mile away from the nearest residences.	SP	i					LA	a	RCPD	1
	b. Final cover and revegetation of the landfill mass in later phases of operation will reduce visual contrast as described for the first impact discussed in this section.	SP	i	i				LD	e	RCPD	2
4. Windblown debris and dust from landfill operations could adversely affect the visual quality of the surrounding area.	a. The perimeters of all landfill and wastehandling areas will be fenced and regularly patrolled for litter control.	SWFP,SP, PP	i	i			i	LC	e	LEA, RCDEH, RCPD	1,2

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Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
5. Potential for significant impacts on views of night skies in the surrounding populated and recreational areas from project night lighting and headlight glare from trucks.	a. Nighttime operations requiring lights, other than landfill liner construction, as required by weather, and public health and safety conditions, will be permitted only in the container handling yard, with only low-level security lighting allowed in the landfill area.	SP,PP	i	i				LC	b	RCPD	2
	b. Lighting required for safety and security will be directed and locational, fixtures will have shields to cut off upward radiation, and light poles will be the minimum height necessary, with the goal of minimizing light spillage.	SP,PP	i	i				LC	a,b	RCPD	1,2
	c. Truck traffic will use 1-10 and Eagle Mountain Road and its extension rather Kaiser Road to reduce visibility from most residences in the area.	SP	i	i				T	b	RCPD	1,2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance		
			Plans	Installed	Completion	Per Event	Discretion						
1. Fire protection impacts from increased demand on fire personnel and equipment and emergency medical services.	a. The landfill will contribute to required fire protection improvements, plans and funding, including a fair share of the operating costs for additional personnel and equipment and additional training for fire personnel to provide the emergency medical service level of training required by the Riverside County Fire Department.	SP,PP						p	LF	c	RCFD, RCPD	1	
	b. A detailed plot plan of each planning area will be submitted to the Riverside County Fire Department for review and approval and a written agreement obtained for fire protection services.	PP,GP	i						LB	c	RCFD, RCPD	1	
	c. A Fire/Life Safety and Emergency Response Plan will be submitted to the Fire Department.	PP,SWFP			i				LB	c	RCFD,LEA, RCDEH	1	
	d. Fire hydrants and water mains will be installed on-site to provide adequate fire flows.	PP,GP	i	i					LB	a	RCFD, RCDB&S	2	
	e. The landfill will be required to participate in the fire protection impact mitigation program adopted by the Riverside County Board of Supervisors.	SP,PP							c	LB	c	RCFD,RCBS	1
	f. Clearance from the Fire Department will be obtained prior to project use or occupancy of any existing structures within the project boundary or the Eagle Mountain townsite.	SP,PP				c				LC	c	RCFD	1

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K. NOISE - Page 1 of 1**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance	
			Plans	Installed	Completion	Per Event	Discretion					
1. Operation of the proposed transfer stations could significantly affect adjacent land uses.	a. Construction and operation of all transfer stations will require approval of local jurisdictions, including environmental review under CEQA, to assure compliance with local noise standards and regulations.	*	*	*	*	*	*	*	*	*		
2. Increased noise levels along the Eagle Mountain rail corridor could affect future residential uses in the Eagle Mountain townsite.	a. Adequate buffer distances from the railroad to residences (150 feet for multi-family, 300 feet for single-family residences) will be required in the future specific plan for the townsite of Eagle Mountain.	EMTSP	i	i			i	PA,PB	a	RCPD	1	
3. Truck traffic to the landfill could generate unacceptable noise levels at residences nearby.	a. All landfill-related truck will be required to use Eagle Mountain road and Extension rather than Kaiser Road.	SP	i	i			i	T	b,e	RCPD	2	
4. Potential noise impact to residential areas due to landfill operations.	a. Equipment noise from landfill will be approximately 1,000 feet from nearest residential area and shielded from that area by existing berms around the fine tailing ponds.	SP	i					LA,LB,LC	b,e	RCPD	1	
	b. Spreading, compacting, and cover of refuse will be conducted only during daylight hours.	SP,SWFP	i	i			i	LC	b,e	RCPD,LEA,RCDEH	1,2	
	c. Operations will be phased so that the body of the tailing pile nearest the townsite, which serves as a noise barrier, will be retained for as long as possible.	SP	i	i				i	LC	c	RCPD	2
	d. Maintenance activities in Planning Area No. 2 of the Specific Plan shall occur within enclosed structures.	SP,PP	i	i				i	PA,PC	c	RCPD,LEA,RCDEH	2

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/ Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potential for excavation involving improvements to Eagle Mountain Road and the I-10 interchange to destroy paleontological resources.	a. A paleontological monitoring program will be prepared by a qualified paleontologist and submitted to the RCPD, San Bernardino County Museum, and BLM for review and approval.	SP	i					PA	e	RCPD, BLM, SBCM	1
	b. A pre-excavation survey will be conducted to exposed paleontological resources.	SP				i		PA	c	RCPD, BLM	1
	c. Excavation activities will be monitored by a qualified paleontologist.	SP				i		PB	e	RCPD, BLM	1
	d. Recovered fossils will be prepared to a point of identification and stabilization.	SP			i			PD	e	SBCM	1,2
	e. Recovered specimens will be identified, curated, and stored in an established repository.	SP			i			PD	c	SBCM	1,2
	f. A report of findings will be prepared and submitted to the County of Riverside, BLM, and the San Bernardino County Museum for approval.	SP						r	PD	a	RCPD, BLM, SBCM

**EAGLE MOUNTAIN LANDFILL PROJECT (SPECIFIC PLAN NO. 252) CONDITIONS OF APPROVAL
& MITIGATION REPORTING/MONITORING PROGRAM CHECKLIST
M. ENERGY CONSUMPTION/GENERATION - Page 1 of 1**

Potential Significant Environmental Effects	Mitigation Measures	Condition of	Checkpoint					Monitor Period	Report Freq.	Monitor/Report Agency	Sanctions for Non-Compliance
			Plans	Installed	Completion	Per Event	Discretion				
1. Potential for consuming more diesel fuel per day than landfills located closer to the waste sources.	a. Diesel locomotives on the Eagle Mountain railway will be shut down when the engines are not needed for an hour or more and will receive regular preventative maintenance, in accordance with manufacturers' recommendations.	SP	i	i				LC	e	RCPD	2
	b. Whenever available, elective versions of landfill equipment including overhead cranes, pugmills, crushers, and conveyors will be used. Where not available, alternative fuel technology will be used depending in air permitting standards.	SP,AC/PO	i	i				LC	e	RCPD, SCAQMD	1,2
	c. When the flare gas generation rate exceeds five million cubic feet per day (MCFD), an analysis of the technical and economic feasibility of recovering energy from the flared landfill gas will be conducted.	AC/PO	i	i			i	LC,LE	e	SCAQMD, USEPA	1,2
	d. If the analysis indicates that energy recovery is feasible, energy recovery facilities shall be installed and operating before the landfill gas generation rate exceeds 10 MCFD.	AC/PO	i	i			i	LC,LE	e	SCAQMD, USEPA	1,2

**TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION**

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
WATER QUALITY				
<u>Groundwater Quality</u> Impacts	Potential degradation of groundwater due to migration of leachate and/or LFG	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Install liner; install leachate collection and removal system; control landfill gas (LFG) by LFG recovery; install detection groundwater monitoring wells; treat on-site wastewater; install low-permeability final cover to prevent runoff from penetrating landfill; prevent landfill surface erosion; continue all mitigation for 30 years after landfill closure	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Surface Water Quality</u> Impacts	Potential pollution of surface waters due to contact with refuse	Same as proposed action	Same as proposed action	No impact

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Mitigation Measures	Install drainage collection system and storm water detention basins; use closed containers to transport waste; compact and cover waste daily; control wind-blown litter with fencing and patrol; control fugitive dust by using both reclaimed and well water	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Groundwater Use and Supply</u> Impacts	Will increase overdraft of aquifer	Reduces the capacity of the project by 20 percent with a 10 percent reduction in water use	Same as proposed action	No impact
Mitigation Measures	Truck and container wash water, wastewater, and condensate will be collected, treated on-site, and recycled for dust control	Same as proposed Action	Same as proposed action	None required
Significance after Mitigation	Significant	Significant	Significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
PUBLIC HEALTH AND SAFETY				
<u>Hazardous Wastes</u>				
Impacts	Potential for worker exposure to hazardous wastes at working face of landfill	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Inspect and screen refuse for hazardous wastes at transfer or materials recovery stations, or at an on-site inspection station; remove hazardous waste for disposal at appropriate hazardous waste sites	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Landfill Gas</u>				
Impacts	Potential hazards due to accumulation and migration of landfill gas (LFG)	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Install composite liner to restrict downward and lateral movement of LFG; install LFG recovery/utilization and migration control system; permanent subsurface LFG monitoring	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	wells near refuse boundary structures, and combustible gas sensors in building interiors; if applicable, install in landfill buildings: impermeable barrier below foundation, active or passive subfloor ventilation, explosion-proof seals for below grade utility conduits, monitor subfloor environment			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Fires</u> Impacts	Potential for subsurface landfill fires, surface fires, refuse fires, and fires along rail right-of-way	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Properly operate and maintain the landfill gas collector system; incorporate staged response for control of subsurface fires into the emergency response plan; retain large watering trucks and earth-moving equipment for on-site emer-	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	agency response capabilities; regularly inspect and hand remove vegetation which may pose a fire hazard along rail right-of-way			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Vectors and Disease Impacts</u>	Potential for landfill to be used by animals, birds, and insects for foraging and/or breeding may result in an increased potential for disease	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Place earthen material over the refuse on a daily basis; implement raven control plan described as mitigation for biological impacts in this table	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Worker Safety</u> Impacts	Potential exposure to noise, dust, odors, landfill gas and condensate, and other unsafe materials	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Develop a standard set of procedures for employee handling of refuse, including use of personal protective equipment, use of enclosed cabs on heavy equipment, rotation of worker assignments, and adequate supervision of personnel; exposure to LFG will be controlled by the collection and disposal system for LFG	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Public Safety</u> Impacts	Public exposure to non-hazardous waste resulting from truck or rail accidents, or from delays in rail transport due to catastrophic events or worker strikes	Slightly less than proposed action	Eliminate potential for truck accidents	No impact

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Mitigation Measures	Establish an emergency response plan with adequate staff either on-site or on-call for any clean-up efforts required; containers will be designed to be transported by truck as well as rail to Eagle Mountain or an alternate site	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
TRAFFIC AND TRANSPORTATION				
<u>Rail Operations</u>				
Impacts	Potential conflict with proposed and ongoing rail operations	Slightly less than proposed action (10 daily one-way trains instead of 12)	Same as proposed action	No impact
Mitigation	Schedule trains with Southern Pacific on a contractual basis to prevent conflict with ongoing rail operations; schedule trains to avoid peak-hour vehicle traffic	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>At-Grade Crossings</u> Impacts	Surface street vehicular traffic will incur slight delays at at-grade rail crossings; at-grade crossing hazards will be increased slightly	Rail operations will be reduced (10 daily one-way trains instead of 12)	Same as proposed action	No impact
Mitigation Measures	Conduct rail service at night to minimize conflicts with vehicular traffic; install flashing lights to notify drivers and pedestrians of approaching trains at rail crossing at Kaiser Road	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Truck Traffic on Streets</u> Impacts	Approximately 100 one-way truck shipments would occur per day; Eagle Mountain Road Extension would create a roadway crossing at Kaiser Road, which serves the community of Eagle Mountain, including local school	Truck traffic is reduced by half	There will be no impacts due to truck traffic	No impact

TABLE 1
 SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Mitigation Measures	Install stop signs at roadway crossing of Eagle Mountain Road Extension and Kaiser Road	Same as proposed action	None required	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
AIR QUALITY Emissions Impacts	Degradation of air quality due to increased emissions in both the South Coast Air Basin and the Southeast Desert Air Basin due to increased emissions from motor vehicles, including train locomotives, on-highway haul trucks, and off-highway heavy equipment during construction and operation of the landfill	Less truck and rail traffic will result in decreased emissions	Use of rail only will result in decrease in emissions	Continued degrading of air quality in South Coast Air Basin from use of existing or new landfills
Mitigation Measures	Shut down diesel locomotives when engines are not needed for one hour or more; use diesel fuel and engines certified by the California Air Resources Board; install energy recovery or pollution	Same as proposed action	Same as proposed action	None available

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Impacts will not be reduced below a level of significance	Impacts will be less than the proposed project but not reduced below a level of significance	Impacts will be less than proposed project but not reduced below a level of significance	Continued significant impacts in South Coast Air Basin and Southeast Desert Air Basin

**TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)**

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Ambient Concentrations</u>				
Impacts	Pollutant concentrations at typical rail crossings are not significant; exceeds state standards for Ozone and state and federal standards for PM10 at the landfill site	Slightly reduced emissions from proposed action	Similar to reduced operations alternative	No impact to SEDAB
Mitigation Measures	Same measures as for emissions from proposed action identified above	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Impacts will not be reduced below a level of significance	Impacts will be less than proposed project but not reduced below a level of significance	Impacts will be less than proposed project but not reduced below a level of significance	No impact to SEDAB
<u>Health Risk Assessment</u>				
Impacts	Potential for increased health risk to area residents due to exposure to LFG	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Interception and removal of hazardous wastes within waste stream; install LFG recovery/utilization and migration control system and permanent subsurface LFG monitoring wells	Same as proposed action	Same as proposed action	No impact

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Not significant	Not significant	Not significant	No impact
<u>Fugitive Dust Impacts</u>	Excessive fugitive dust from handling and transfer of solid waste and cover material	Less fugitive dust than proposed action	Similar to reduced operations alternative	No impact to SEDAB
Mitigation Measures	Use water and chemical dust suppressants on unpaved roads, work areas, and during construction of pit benches, ditches, etc; pave permanent haul roads; prewater tailing piles prior to excavation; pass haul trucks through wheel washing stations or mechanically sweep roads	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Impacts will not be reduced below a level of significance	Impacts will be less than proposed project but not reduced below a level of significance	Impacts will be less than proposed project but not reduced below a level of significance	No impact to SEDAB

TABLE 1
 SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Consistency with Regulatory Programs</u> Impacts	Statutory requirements ensure consistency with regulatory programs	Same as proposed action	Same as proposed action	None required
Mitigation Measures	Application, permit review, imposition of control conditions, approval, and inspection processes of the SCAQMD will serve to enforce consistency	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	None required
<u>LAND USE Existing Uses</u> Impacts	Landfilling would render existing iron ore reserves unrecoverable	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Phase landfill operations to assure that iron ore reserves most feasible to mine are impacted last to allow for recovery if economically justified	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Not significant	Not significant	Not significant	None required
<u>Surrounding Uses</u> Impacts	Potential impacts to existing residential use and correctional facility	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Restrict truck traffic to designated roads; maintain minimum 25-foot setback and maximum 60-foot height for all project buildings; maintain berms to partially obscure views onto project site; control fugitive dust and odors; install sound attenuating walls as needed	Same as proposed action	Not significant	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Consistency with Plans and Policies</u> Impacts	The project would require a BLM land exchange and County General Plan amendment and zone change to make the project consistent with existing plans	Same as proposed action	Same as proposed action	No impact

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	None required
DRAINAGE				
Impacts	Potential drainage impacts to the East Pit, townsite, and alluvial areas east of the project site	Same as proposed action	Same as proposed action	Continued inadequate drainage at the East Pit, townsite, and alluvial areas east of the project site
Mitigation Measures	Install perimeter drainage system to accommodate 100-year storm flows with a 500-year frequency standard channel freeboard design; limit final landfill slope to not more than 3 percent for drainage	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
BIOLOGY				
<u>General</u>				
Impacts	Supervision of biological mitigation monitoring/reporting program	Same as proposed action	Same as proposed action	No impact

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Mitigation Measures	Landfill operator will retain qualified consulting biologist to supervise all aspects of the biological mitigation monitoring/ reporting program; file annual reports on status of all biological mitigation activity	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Desert Tortoise</u> Impacts	Permanent loss of individuals and habitat, potential increased raven predation, potential harassment of individuals (noise and vibration)	Same as proposed action	Avoids permanent loss of habitat (widening of Eagle Mountain Road), and impacts from truck traffic; other potential impacts similar to proposed action	No impact
Mitigation Measures	Survey and monitor prior to and during construction/ maintenance, relocate individuals from railroad bed; install culvert system and protective fence along first 4 miles of Eagle Mountain Road and portions of railway; install ballast between tracks; precede trains and remove tortoises from track; monitor	Same as proposed action	Same as proposed action but delete off-site preservation	None required

TABLE 1
 SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	tortoise population for life of project; maintain speed limit on Eagle Mountain Road; remove road kills daily; preserve off-site habitat; monitor raven population; passive and active control of ravens; monitor and control coyotes and kit foxes; worker/ townsite education			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Bighorn Sheep</u> Impacts	Loss of 4 water sources and habitat; potential indirect effects from increased human population; potential disruption of sheep movement	Impacts would be slightly reduced	Same as proposed action	No impact
Mitigation Measures	Install three permanent water sources far from mine site to encourage bighorn sheep to use surrounding natural areas; these sites and their design to be approved by biologists at BLM and CDFG; rehabilitate Buzzard Springs and clear of tamarisk; if sheep are not	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	naturally expanding their ranges to incorporate new sources, translocate them; preserve buffer habitat areas around landfill (644 acres); monitor sheep movement; conduct employee/townsite awareness program			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Desert Pupfish</u> Impacts	Potential impacts from rail accident or major construction on trestle over habitat	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	If major construction is necessary, incorporate protective measures in plans and monitor construction/maintenance activities; include biologist on emergency response team and restore any habitat disturbed by construction/accident	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Other Sensitive Wildlife Impacts</u>	Potential loss of California leaf-nosed bat roosting areas; increased raven predation on Eagle Mountain scrub jay	Slight reduction on overall habitat loss	Same as proposed action	No impact
Mitigation Measures	Monitor bat roost sites; maintain adit opening; monitor and control ravens	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Sensitive Plant Species Impacts</u>	Loss of 158 acres of foxtail cactus habitat	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Preserve 157 acres of foxtail cactus on-site; initiate transplant program for lost cacti on suitable areas within project boundary; monitor transplants once a month for one growing	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	season; submit monitoring report to BLM, CDFG, and USFWS			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Major Washes and Drainages</u>				
Impacts	No significant impacts to wetlands are anticipated to occur from this project	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
GROWTH INDUCEMENT AND SOCIOECONOMICS				
<u>Growth Inducement</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impacts
Mitigation Measures	None required	Same as proposed action	Not significant	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Socioeconomics</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impacts
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required

TABLE I
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
GEOLOGY				
<u>Soils and Geology</u> Impacts	Potential exists for settlement within alluvial soils, for expansive soils, and for surficial instability	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Identify expansive soils in alluvial material within the landfill footprint and regrade, as necessary; determine the safe slope angles and maintain slopes within this range; identify need to flatten slopes or construct fill buttresses; excavate and/or recompact unsuitable soils prior to liner construction; place liner against safe slope angles	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Seismicity</u>				
Impacts	Potential ground shaking	Same as proposed action	Same as proposed action	No impacts
Mitigation Measures	Progressively remove loose rock and materials on areas immediately above the working face of the landfill, and construct berms to intercept fallen rock	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Mineral Resources</u>				
Impacts	Potential loss of recoverable iron ore reserves	Approximate 50 percent reduction of proposed project's impacts	Same as proposed action	No impact
Mitigation Measures	Sequence landfill operations so as to impact mineral resources last to allow for recovery prior to impact	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
VISUAL, RECREATION, AND WILDERNESS				
<u>Visual Contrast</u>				
Impacts	Potential for increased visual contrast	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Blend the topographic contours of the landfill with adjacent landforms, and minimize color and tone contrast of the final cover; revegetation of the landfill will further reduce visual contrast impacts	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Same as proposed action	Same as proposed action	None required
<u>Views from Desert Center and Other Key Observation Points</u>				
Impacts	No significant impact	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Views from Eagle Mountain</u>				
<u>Townsite</u>				
Impacts	The proposed action will have a significant impact on the views from the community of Eagle Mountain; however, that impact will not be visible for several decades; visual contrast will be decreased over time	The reduction in size and scale of the landfill would serve to reduce visual impact as compared to the proposed action	Incremental improvement over proposed action	Currently, the views from the community are significantly impacted by the imposing tailing pile, the exposed slopes, and scarred areas; this high level of impact would remain
Mitigation Measures	Phase project, revegetate disturbed areas, and revitalize community	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	A significant impact is associated with this alternative
<u>Windblown Debris and Dust</u>				
Impacts	Potential for windblown debris and dust	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Transport all refuse materials to the site and to the face of the landfill in closed containers, compacted and covered on a daily basis; water haul roads regularly; install fencing and regularly patrol	Same as proposed action	Incremental improvement over proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	for litter retrieval; develop an active storm and early warning procedure for extremely windy conditions and response plan to ensure timely and complete cleanup of accidental spills			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Night Lighting Impacts</u>	Potential for visually impacting the surrounding area by night lighting	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Limit landfill activities other than the container handling operation and liner installation to day-light hours; provide low-pressure sodium safety and security lights; direct lighting downward to light only the immediate area	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Recreation</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Wilderness</u>				
Impacts	Indirect impacts associated with increased activity visible from Wilderness Study Areas (WSAs)	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Location and design of landfill and reduction of visual contrast	Same as proposed action	Same as proposed action	Continued low level of impact to WSAs
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
UTILITIES AND SERVICES				
<u>Water and Sewer</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Not significant	None required

TABLE I
 SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Fire and Police Impacts</u>	No significant impacts were identified for police protection; significant fire protection impacts were identified due to inadequate and poor hydrant placement and pressure	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required for police protection; obtain written agreement for fire protection services from the Riverside County Fire Department; submit a Fire/Life Safety and Emergency Response Plan to the Fire Department; install water mains and fire hydrants to provide the required fire flows; participate in the fire protection impact mitigation program as adopted by the Riverside County Board of Supervisors	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Utilities</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Community Facilities</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
NOISE				
<u>Short-term Construction Noise</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Rail Operations</u>				
Impacts	Potential impacts to non-human receptors are not considered significant; potential noise impacts to future land uses	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Install sound attenuating walls as needed	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
<u>Truck Traffic</u>				
Impacts	Increases are not significant; only residences close to I-10 may experience CNELs above 65 dBA	Same as proposed action	There would be no noise impacts from truck traffic	No impact
Mitigation Measures	Require truck traffic to use the Eagle Mountain Road interchange and access to the project site	Same as proposed action	None required	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>On-site Landfill Operations</u>				
Impacts	The potential exists for residences located within 500 feet of the project site to experience occasional significant noise levels during operations to remove cover material from the large tailing pile	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	Maintain the body of the tailing pile to serve as a noise barrier for as long as possible and specific restrictions on operations in this area	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
CULTURAL RESOURCES				
<u>Cultural Resources of Riv-3798 and Riv-3216</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Native American Concerns</u>				
Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
PALEONTOLOGY				
Impacts	Excavations within portions of Eagle Mountain Mine improvements to Eagle Mountain Road at the I-10 exit have the potential to impact paleontologic resources; rehabilitation and maintenance of the rail line will not impact paleontology resources	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	A program to mitigate impacts to paleontologic resources will include a preexcavation survey, excavation monitoring, fossil preparation and identification, and preparation of a report by a qualified paleontologist; this report shall be submitted to Riverside County, BLM, and	Same as proposed action	Same as proposed action	None required

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
	San Bernardino County Museum; rehabilitation and maintenance of the rail line will not require mitigation			
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
ENERGY Impacts	Project implementation will require more fuel per day than landfills located closer to the waste sources	Will require more fuel per day than landfills located closer to the waste sources, but less than proposed action	Will require more fuel per day than landfills located closer to the waste sources, but less than proposed action	Landfills located closer to the waste sources would continue to use energy to transport and process waste
Mitigation Measures	A preventative maintenance program would be implemented for the rail line and at the landfill site to maintain the operating efficiency of equipment and vehicles; use electric versions of landfill equipment wherever possible; conduct feasibility of converting LFG to energy source if feasible, install and operate energy recovery system before LFG generation exceeds 10 MCFD	Same as proposed action	Same as proposed action	None available

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	Not significant	Not significant	Not significant	Not significant
CUMULATIVE				
<u>Health and Safety; Traffic</u>				
<u>Land Use; Growth and</u>				
<u>Socioeconomics; Visual</u>				
<u>Recreation, and Wilderness;</u>				
<u>Utilities and Services;</u>				
<u>Noise; Cultural; Energy</u>				
Cumulative Impacts	No significant impacts	Same as proposed action	Same as proposed action	No impact
Mitigation Measures	None required	Same as proposed action	Same as proposed action	None required
Significance after Mitigation	Not significant	Not significant	Not significant	
<u>Groundwater Use and Supply</u>				
Cumulative Impacts	Will increase overdraft of aquifer	Reduces the capacity of the project by 20 percent with a 10 percent reduction in water use	Same as proposed action	No impact
Mitigation	Treat wash water, waste water, and condensate, and recycle for dust control	Same as proposed action	Same as proposed	Same as proposed action for other projects
Significance after Mitigation	Significant	Significant	Significant	Significant

TABLE 1
SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
(continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
<u>Air Quality</u>				
Cumulative Impacts	Will increase emissions in two nonattainment basins	Incremental improvement over proposed action	Same as proposed action	Significant cumulative impacts
Mitigation Measures	Implementation of South Coast Air Quality Management Plan	Same as proposed action	Same as proposed action	Same as proposed action for other projects
Significance after Mitigation	Significant until year 2007	Same as proposed action	Same as proposed action	Same as proposed action
<u>Biological Resources</u>				
Cumulative Impacts	Potential desert tortoise population fragmentation due to reactivation of Kaiser railroad; potential loss of substantial populations of Alverson's foxtail cactus due to project implementation	Same as proposed action	Same as proposed action	Potential of similar impacts in other project areas
Mitigation Measures	Preoperation surveys, monitoring raven control plan, clean out and repair existing culverts under the railroad, evaluate the optimum locations to install additional culverts and barriers if needed, and construct as appropriate, place ballast between the rail tracks, employee/townsite	Same as proposed action	Same as proposed action	Similar to proposed action

TABLE I
 SUMMARY OF PROJECT ALTERNATIVES' IMPACTS AND MITIGATION
 (continued)

Issues	Proposed Action	Reduced Landfill Operations	Rail Access Only	No Project
Significance after Mitigation	education, off-site habitat preservation for desert tortoise; habitat preservation and salvage for public use of cactus species	Same as proposed action	Same as proposed action	Not significant