

SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

238



FROM: Waste Management Department

SUBMITTAL DATE:  
February 23, 2015

SUBJECT: 2013 El Sobrante Landfill Annual Monitoring Report, District 1

RECOMMENDED MOTION: That the Board of Supervisors:

1. Receive and file the 2013 El Sobrante Landfill Annual Report, dated December 2014; and
2. Direct the Clerk to ensure that a copy of the Annual Report is made available for public review at accessible locations.

BACKGROUND:

Summary

As stipulated in the Conditions of Approval of the Second El Sobrante Landfill Agreement (Agreement), the Administrative Review Committee (ARC), formed pursuant to Section 13 of the Agreement and composed of representatives from the Waste Management Department, Executive Office, and Planning Department, reviewed the 2013 El Sobrante Landfill Annual Monitoring Report (Report) to ensure that the landfill is being operated by Waste Management, Inc. (WMI), in conformance with the landfill's adopted Mitigation Monitoring Program (MMP). (continued)

  
Hans Kernkamp  
General Manager-Chief Engineer

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ 0	\$ 0	\$ 0	\$ 0	Consent <input type="checkbox"/> Policy <input type="checkbox"/>
NET COUNTY COST	\$	\$	\$	\$	

SOURCE OF FUNDS: N/A

Budget Adjustment:

For Fiscal Year:

C.E.O. RECOMMENDATION:

APPROVE

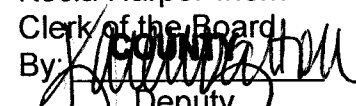
BY:   
Alex Gann

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Jeffries, seconded by Supervisor Tavaglione and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Washington, Benoit and Ashley  
Nays: None  
Absent: None  
Date: March 10, 2015  
xc: Waste

Kecia Harper-Ihem  
Clerk of the Board  
By:   
Deputy

Prev. Agn. Ref.:

District: 1

Agenda Number:

12-3

A-30

Positions Added

Change Order

4/5 Vote

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**  
**FORM 11: 2013 El Sobrante Landfill Annual Monitoring Report**

**DATE:** February 23, 2015

**PAGE:** Page 2 of 3

**BACKGROUND:**

**Summary (cont'd)**

The 2013 El Sobrante Landfill Annual Report represents a departure from the format of earlier reports. A staff report, included with the 2013 Annual Reports (see attached), details the change in process and format. The 2013 El Sobrante Landfill Annual Report consists of the following:

1) Annual Monitoring Report

- Provides annual updates for such topics as in-County and out-of-County tonnage, complaints, pending litigation, hours of operation, facility permits, etc.

2) Conditions of Approval Status Report

- Documents compliance with the Riverside County Board of Supervisors and Riverside County Transportation Department's Conditions of Approval imposed on USA Waste/WMI during the 1998 landfill Expansion Project.

3) Mitigation Monitoring Program Status Report

- Documents compliance with the mitigation measures adopted for the operation of the El Sobrante Landfill.

The ARC initially reviewed the draft 2013 Annual Report in August 2014. The Report was then submitted to the Citizens Oversight Committee (COC) to solicit comments. The COC met in October 2014 to review the draft Report, and provided comments, as documented in the attached Staff Report. The ARC met again in January 2015 to review the final Report.

The ARC made the following determinations in approving the 2013 Annual Report:

1. 2013 Annual Monitoring Report

- All ARC, COC, and staff comments/edits were addressed.

2. 2013 Conditions of Approval Status Report

- All ARC, COC, and staff comments/edits were addressed.

3. 2013 Mitigation Monitoring Program Status Report

- Compliance with Measure T-3 cannot be definitively determined in the 2013 Annual Report; however, monitoring data from WMI's GPS tracking program, "geo-fence", will be available for evaluation in the 2014 Annual Report. This will provide clarity regarding the routes of WMI/USA Waste's transfer truck fleet, which accounts for at least 60% of the transfer trucks utilizing the El Sobrante Landfill.
- With the exception of semi-yearly monitoring of recorded cultural resources within the landfill property, as required under mitigation measure C-4, USA Waste/WMI has submitted the required reports and documentation where applicable, to the agencies responsible for implementation/monitoring of the conditions and mitigation measures in accordance with the approved MMP. To address measure C-4, USA Waste shall begin monitoring and reporting as required, documenting compliance in future annual reports.
- Staff was directed to perform additional research regarding WMI's compliance with Measure W-14. Specifically, staff will review the Landfill Expansion EIR and 1994 Water Resources Technical Report, to determine the relationship, if any, with a proposed 'cut-off' wall and its application to Measure W-14.

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

**FORM 11: 2013 El Sobrante Landfill Annual Monitoring Report**

**DATE:** February 23, 2015

**PAGE:** Page 3 of 3

As required under Conditions of Approval 22(f) for the Agreement, the 2013 Annual Report was transmitted to the Board of Supervisors, as well as the COC, within 60 days of the ARC providing its determination for the 2013 Report. As stated in Conditions of Approval 14(b) for the Agreement, the COC will meet at least annually to review the Annual Report, as submitted by the ARC, and provide written comments to the Board, as deemed necessary. The COC met on January 29, 2015, to review the final Report, and had the following comments:

**COC Comments:**

WMI is non-compliant with Mitigation Measure T-3.

**Staff Response:**

Staff concurs with the ARC's determination regarding Mitigation Measure T-3.

**Impact on Citizens and Businesses**

No impacts on Citizens or Businesses.

# **El Sobrante Landfill**

## **2013 Annual Report**

**Prepared By:**

**Riverside County Waste Management Department**

**December 2014**



# Staff Report

## Introduction

The Riverside County Waste Management Department (RCWMD) is responsible for the monitoring and implementation of both the El Sobrante Landfill Mitigation Monitoring Plan (MMP), as well as the Second El Sobrante Landfill Agreement (Second Agreement), between the County of Riverside and USA Waste of California (USA Waste), a subsidiary of Waste Management Inc. (WMI). USA Waste/WMI is required to provide an annual report documenting their efforts in complying with the mitigation measures and conditions of approval, as identified in the MMP and Second Agreement.

The 2013 El Sobrante Landfill Annual Report represents a departure from the format of earlier reports. Previous annual reports contained information required under Exhibit "D" of the Second Agreement, as well as documented compliance with the MMP. This information was packaged together as one single report. In May 2014, USA Waste/WMI prepared the 2013 Annual Monitoring Report, which provided information based solely on the items listed on Exhibit "D" of the Second Agreement, excluding the implementation status of mitigation measures in the MMP, which was to follow as an independent document later in the year. RCWMD staff determined that preparing individual reports addressing Exhibit "D" and compliance with the MMP was acceptable; however, in order for the Administrative Review Committee (ARC) to make an informed decision on USA Waste/WMI's compliance with the mitigation measures and conditions of approval, an additional report specifically documenting compliance with the conditions of approval for the Second Agreement must be prepared, with the concurrent submittal of the three reports.

As such, the 2013 El Sobrante Landfill Annual Report consists of the following:

### 1) Annual Monitoring Report

- Provides annual updates for the items listed on Exhibit "D" of the Second Agreement, which include, but are not limited to, topics such as in-County and out-of-County tonnage, complaints, pending litigation, hours of operation, and facility permits.

### 2) Conditions of Approval Status Report

- Documents compliance with the Riverside County Board of Supervisors and Riverside County Transportation Department's Conditions of Approval imposed on USA Waste/WMI during the 1998 landfill Expansion Project.

### 3) Mitigation Monitoring Program Status Report

- Documents compliance with the mitigation measures adopted for the operation of the El Sobrante Landfill.

## **Review Process**

In June 2014, USA Waste/WMI provided RCWMD with drafts of the Annual Status Monitoring Report and Conditions of Approval Status Report. Upon RCWMD and Local Enforcement Agency (LEA) review, the reports were presented to the ARC during the August 28, 2014 ARC meeting. The ARC reviewed the reports, and then submitted the reports with staff comments to USA Waste/WMI for revision.

The revised reports, along with the Conditions of Approval Status Report<sup>1</sup>, were presented to the Citizens Oversight Committee (COC) during the October 8, 2014, COC meeting. The COC provided the following input:

1. **2013 Annual Monitoring Report**

The COC concurred with staff edits/comments as submitted and recommended that the Report be forwarded to the ARC for approval, subject to resolution of staff's edits/comments.

2. **2013 Conditions of Approval Status Report**

The COC concurred with staff edits/comments as submitted and recommended that the Report be forwarded to the ARC for approval, subject to resolution of staff's edits/comments.

3. **2013 Mitigation Monitoring Program Status Report**

The COC concurred with staff edits/comments as submitted, and with incorporation of the following comments, moved that the Report be presented to the ARC. Staff responses follow each COC comment.

**AQ-1**

The COC suggested including the third party technical report as well as referencing the 2012 Annual Report discussion on the measure.

**Staff Response**

The Technical Memorandum was added to the appendix and the status response was updated.

**AQ-12**

The COC requested clarification regarding the role of SCAQMD.

**Staff Response**

SCAQMD reviews the analysis prepared for AQ-12. The last analysis prepared was in 2004. In accordance with measure AQ-12, the County has requested that USA Waste/WMI prepare a new study re-evaluating alternative fueled engines for transfer truck operation. SCAQMD will review once available. With this update, changes to the status response are not necessary.

---

<sup>1</sup> Submitted to RCWMD in September 2014.

### **T-3**

The COC suggested adding an appendix that contains USA Waste/WMI notification letters and policies regarding avoidance of peak hour traffic on the SR91.

The COC questioned the peak hour analysis completed by USA Waste/WMI.

#### **Staff Response**

A sample notification letter was added to the appendix as well as applicable peak hour<sup>2</sup> traffic data for 2012-13. Data from the "geo-fence", USA Waste/WMI's GPS tracking tool for their transfer truck fleet, will be included in the appendix starting with the 2014 Annual Report.

Staff reviewed WMI's peak hour evaluation and determined that the peak hour traffic data used in the analysis was incomplete. Only one year's worth of data (a rolling 12 months) is stored on the computer system stationed in the WMI office at El Sobrante; therefore, WMI's response to the measure was based on partial data. WMI was provided data covering the entire year and their response was revised accordingly. While staff concurs with the response, as revised, compliance with the Measure T-3 cannot be determined due to a lack of monitoring data (GPS). GPS data for USA Waste/WMI's transfer fleet is available for inclusion in the 2014 Annual Report. Staff will continue to work with USA Waste/WMI to improve monitoring and reporting in order to conclusively determine compliance with this measure in future Annual Reports.

### **W-14**

The COC questioned if a cut-off wall identified in the 1994 Water Resources Technical Report that addressed ground water should be identified under this measure since the current practice departs from what was originally assessed.

#### **Staff Response**

The inclusion of a cut-off wall in the 1994 Water Resources Technical Report does not compel or commit USA Waste/WMI to construct the cutoff wall. It was identified but is not required. Rather than a cut-off wall, USA Waste/WMI installs sub-drains, as approved by the RWQCB. With this update, changes to the status response are not necessary.

### **Staff Recommendations**

After the October 2014 COC meeting, RCWMD worked with USA Waste/WMI to address remaining comments/edits. USA Waste/WMI provided the requested technical reports/memorandums, and incorporated staff's suggested edits. RCWMD prepared the final drafts of the annual reports (including appendices), developed the 2013 Annual Report and Staff Report, as well as provided the following comments/recommendations:

#### **1. 2013 Annual Monitoring Report**

All ARC, COC, and staff comments/edits were addressed. **Staff recommends approval.**

---

<sup>2</sup> RCWMD sought a legal opinion from County Counsel determining the peak hours for use in Measure T-3. A memorandum to the COC from RCWMD, documenting the findings, is attached to this Annual Status Report.

2. 2013 Conditions of Approval Status Report

All ARC, COC, and staff comments/edits were addressed. **Staff recommends approval.**

3. 2013 Mitigation Monitoring Program Status Report

All ARC, COC, and staff comments/edits were addressed. As previously noted, compliance with Measure T-3 cannot be definitively determined in the 2013 Annual Report; however, monitoring data from WMI's GPS tracking program, "geo-fence", will be available for evaluation in the 2014 Annual Report. This will provide clarity regarding the routes of WMI/USA Waste's transfer truck fleet, which accounts for at least 60% of the transfer trucks utilizing the El Sobrante Landfill.

With the exception of semi-yearly monitoring of recorded cultural resources within the landfill property, as required under mitigation measure C-4, USA Waste/WMI has submitted the required reports and documentation where applicable, to the agencies responsible for implementation/monitoring of the conditions and mitigation measures in accordance with the approved MMP. To address measure C-4, USA Waste shall begin monitoring and reporting as required, documenting compliance in future annual reports. **Staff recommends approval.**

## **Attachments**

**Peak Hour Memorandum**



*Riverside County*  
**Waste Management Department**

*Hans W. Kernkamp, General Manager-Chief Engineer*

DATE: October 3, 2014  
TO: Citizens Oversight Committee (COC) Members  
FROM: Ryan Ross, Principal Planner *RR*  
RE: Peak Hours and the Boundaries of SR-91 related to Traffic; Mitigation Measure T-3; El Sobrante Landfill Expansion Environmental Impact Report (EIR)

---

**Issue:**

The Riverside County Waste Management Department (RCWMD) sought a legal opinion from County Counsel to clarify the peak hours and boundaries used in determining compliance with Mitigation Measure T-3. Measure T-3 requires that out of county transfer trucks hauling waste to and from the El Sobrante landfill using SR 91 shall do so during off-peak hours.

**Summary of Legal Opinion:**

**CEQA:** The previously certified EIR determined that no significant traffic impacts would occur as it relates to SR-91. Once all discretionary approvals for a project have been granted, future analysis or changes to mitigation are limited to future discretionary permits only, even if the circumstances surrounding the project have changed or new environmental information develops.

**Peak Hour:** There is no language in the EIR to establish a different definition for Peak Hour or that the Peak Hour would likely change at a future date or time. For mitigation drafted at the same time as the traffic impact report, the definition of Peak Hour for the SR91 would be the same for Mitigation Measure T-3 as utilized for the affected intersections (7:30 am to 8:30 am and 4:30 pm to 5:30 pm).

**SR91 Segment:** The traffic report and the EIR focus exclusively on the traffic data within Riverside County. Given the lead agency's authority focuses on mitigation under its jurisdiction, Mitigation Measure T-3 was developed for application within the Riverside County SR91 segment.

## **2013 Annual Monitoring Report**



# **El Sobrante Landfill Annual Monitoring Report**

**Reporting Period:**

**January 1, 2013 through December 31, 2013**

**Prepared By:**

**USA Waste of California, Inc.**

**December 2014**



## **Introduction**

The El Sobrante Landfill Annual Monitoring Report (AMR) for the period covering January 1, 2013 through December 31, 2013 has been prepared by USA Waste of California (USA Waste), a subsidiary of Waste Management Inc. (WMI), for the County of Riverside in compliance with the Second El Sobrante Landfill Agreement (Second Agreement), inclusive of any Amendments. Exhibit "D" of the Second Agreement requires submission of the AMR (see attached). Section 13.2 of the Second Agreement requires submittal of the Mitigation Monitoring Program (MMP) reports to the Administrative Review Committee (ARC). In addition, the ARC can request additional information regarding USA Waste's performance. The Riverside County Waste Management Department (RCWMD) (not the ARC) has requested that USA Waste prepare a third report, a Conditions of Approval (COA) report. RCWMD has advised that all three reports will form an Annual Status Report (ASR). In preparing the COA report, USA Waste noted that there was substantial overlap between the Conditions of Approval and Mitigation Measures, and that some of the Conditions of Approval address construction activities that were completed many years ago. As a result, preparation of a COA report in future years might not provide useful information to the ARC. The ASR is to be first reviewed by the County's Administrative Review Committee (ARC), a committee comprised of representation from the County's Planning Department, Waste Management Department, and Executive Office, and then submitted to the Citizen Oversight Committee (COC), a committee formed in 2003 pursuant to Condition of Approval No. 14.a. (Exhibit "F" of the Second Agreement). Condition of Approval No. 14.b. requires the COC to meet at least once annually to review the ASR, as submitted by the ARC.

## **Landfill History**

The El Sobrante Landfill is an existing municipal solid waste landfill, located at 10910 Dawson Canyon Road, easterly of Interstate 15 and Temescal Canyon Road, approximately seven (7) miles southeast of the City of Corona in the Temescal Canyon area of unincorporated Riverside County. The landfill, which is owned and operated by USA Waste, started disposal operations in 1986. From 1986 to 1998, the landfill was operated pursuant to the original El Sobrante Landfill Agreement and its Amendments and one Addendum. On September 1, 1998, the Riverside County Board of Supervisors (BOS) approved the El Sobrante Landfill Expansion Project, a vertical and lateral expansion of the landfill, and entered into the Second Agreement, which became effective on September 17, 1998. The Second Agreement represents a public/private relationship between the owner/operator of the landfill and the County of Riverside and provides for the County's Waste Management Department to operate the landfill gate, to set the County rate for disposal at the gate with BOS approval, and to operate the Hazardous Waste Inspection Program.

The specific actions taken by the BOS on September 1, 1998 included the following:

- Adoption of Resolution No. 98-275, certifying the Environmental Impact Report (EIR), consisting of the Draft EIR (dated April 1994), the Final EIR (dated April 1996), and the Update to the Final EIR (dated July 1998).
- Adoption of Resolution No. 98-276, approving the El Sobrante Landfill Expansion Project and the Second El Sobrante Landfill Agreement, adopting Conditions of Approval and a Mitigation Monitoring Program (MMP) and making Findings of Fact.

The El Sobrante Landfill Expansion Project, for which the EIR (circulated under SCH No. 1990020076) was certified, included the following major elements:

- An increase in landfill disposal capacity to approximately 196.11 million cubic yards or approximately 109 million tons of municipal solid waste.
- An increase in the daily disposal capacity up to 10,000 tons.
- An increase in the landfill area to a total of 1,322 acres.
- An increase in the landfill footprint to 495 acres.
- An increase in the hours of operation, allowing 24-hour continuous operations, 7 days a week, for non-waste functions (i.e., application of daily cover, stockpiling of daily cover, site maintenance, grading, and vehicle maintenance) and allowing disposal operations from 4:00 AM to Midnight.

Pursuant to the Second Agreement, the "Start Date" for the El Sobrante Landfill Expansion Project and the terms of the Second Agreement was the date upon which all necessary approvals and/or permits were obtained. The following were considered the final approval/permits needed to trigger the "Start Date":

- Issuance of Waste Discharge Requirements (WDRs) Order No. 01-53 from the Regional Water Quality Control Board (RWQCB), Santa Ana Region on July 21, 2001.
- Issuance of Solid Waste Facility Permit (SWFP) No. 33-AA-0217 from the Riverside County Environmental Health Department, Local Enforcement Agency (LEA) on August 6, 2001, following concurrence from the California Integrated Waste Management Board (CIWMB).

The Second Agreement has since been amended three times:

1. The First Amendment, approved by the BOS on July 1, 2003, amended the scope of the Expansion Project to allow the landfill operator to grind green waste for Alternative Daily Cover (ADC) and to add facilities to convert landfill gas to electricity.
2. The Second Amendment, approved by the BOS in March 2007, allowed for USA Waste to pursue the necessary approvals/permits to again amend the scope of the Expansion Project. Subject to further environmental review in compliance with the California Environmental Quality Act (CEQA) and BOS approval, the Second Amendment allowed for acceptance of waste material for disposal over a continuous 24-hour period and for the maximum daily capacity of 10,000 tons to be changed to a weekly disposal capacity of 70,000 tons. On March 31, 2009, the BOS adopted Resolution No. 2009-093, approving the revision to the landfill's SWFP to allow the operational changes in the Second Amendment, certifying the Supplemental EIR (SCH #2007081054), and approving the corresponding MMP. The LEA later issued a revision to SWFP #33-AA-0217 on September 9, 2009, with concurrence from the CIWMB on August 18, 2009, which allowed for the operational changes in the Second Amendment (i.e., 70,000 tons per week, not exceeding 16,054 tons per day, and continuous 24-hour disposal) to be implemented on August 31, 2009.
3. In addition to revising some definitions in the Second Agreement to maintain consistency with environmental documents, the Third Amendment, considered by the COC on November 26, 2012 and approved by the BOS on December 18, 2012, modified the hours allowed for existing and future excavation and liner construction activities in new landfill cells from 8:00 a.m. to 5:00 p.m., Monday through Saturday, to 7:00 a.m. to 10:00 p.m., Monday through Saturday, restricting the conveyor belt from being located within 295 feet of occupied residences and limiting hours for excavation and liner construction within 10 feet of the top of slope.

## **Overview of Calendar Year 2013**

### **2013 Permits/Approvals**

In 2013, the landfill operator applied for a revised Title V operating permit from the South Coast Air Quality Management District (SCAQMD). The Title V permit, which was issued in January 2014, applies to facilities that have the potential to emit any criteria pollutant or hazardous air pollutant at levels equal to or greater than established emission thresholds for the South Coast air basin.

### **2013 Changes in Landfill Expansion Project Plan**

In 2013, the El Sobrante Landfill continued to be developed in overall accordance with the Expansion Project first approved by the BOS in 1998 and with its SWFP and corresponding Joint Technical Document (JTD), last revised in 2009.

### **2013 Landfill Activities**

In 2013, the active area for waste disposal operations continued to be in Phases 9B and 10, and the following construction activities related to landfill gas (LFG) management occurred at the El Sobrante Landfill:

- Trenching of three (3) new horizontal gas collection wells
- Relocation and installation of approximately 1,600 linear feet (LF) of above-grade 12-inch High Density Polyethylene (HDPE) header piping
- Excavation and relocation of approximately 100 LF of below-grade 30-inch HDPE header piping
- Installation of approximately 1,080 LF of below-grade 30-inch HDPE piping
- Installation of various wellheads, stub-outs, tie-ins, and valves
- Construction of road crossings

In addition, an existing 10,000 gallon Underground Storage Tank was removed in 2013 (replaced with a 20,000 gallon Above-Ground Storage Tank ).

No other landfill construction activities occurred in 2013.

### **2013 Days and Hours of Operation**

In 2013, the El Sobrante Landfill received waste tonnage on 307 days. Excluding County holidays, the landfill was open six (6) days a week, Monday through Saturday, and closed on Sunday. The landfill, which has 24-hour disposal operations, was open from 4:00 AM on Monday to 6:00 PM on Saturday. The landfill was open to commercial haulers and the general public in accordance with the following schedule:

#### Days/Hours for Commercial Haulers

- Open six (6) days a week, Monday through Saturday
- Hours = 4:00 AM on Monday through 6:00 PM on Saturday

#### Days/Hours for General Public

- Open six (6) days a week, Monday through Saturday
- Hours = 6:00 AM through 6:00 PM daily

## **2013 Disposal Volumes**

During calendar year 2013, a total of approximately 1,962,124.94 tons of municipal solid waste was disposed at the El Sobrante Landfill. Of this amount, approximately 685,610.65 tons originated from Riverside County sources, and approximately 1,276,514.29 tons originated from out-of-County sources.

Based on 307 working days, an average of 6,391 (rounded to nearest whole number) tons of waste were received at the landfill on a daily basis in 2013.

## **Landfill Capacity Used in 2013 and Landfill's Remaining Capacity at End of 2013**

Landfill capacity is closely monitored at the El Sobrante Landfill to ensure that the landfill's operational efficiency is meeting WMI and community expectations. On an annual basis, the entire landfill is flown by an aerial survey company, and aerial topographic maps are prepared to calculate the remaining airspace or capacity of the landfill by comparing the existing landfill topography to the expected final landfill topography. To evaluate the compaction efficiency or density of the waste material in the landfill, an Airspace Utilization Factor (AUF) is used. The AUF (tons of waste per cubic yard of landfill airspace) is recorded as the total waste disposed within a known volume of landfill airspace in a given period of time. The AUF takes into account such factors as the use of ADC and soil cover, waste settlement, and waste composition.

Using the AUF for 2013 operations (approximately 0.962 ton/cubic yard) and the amount of 1,962,125 tons of waste disposed in 2013, approximately 2,039,631 cubic yards of capacity were used in 2013. The landfill's remaining airspace at the end of 2013 is estimated to be approximately 176,848,527 cubic yards, in excess of 170,000,000 remaining tons. Assuming 91 percent of this capacity is available for trash (approximately 160,932,160 cubic yards or 154,816,738 tons), the landfill continues to have in excess of 55 years of capacity at current tonnage projections.

## **Origin of Non-County Waste Disposal Volume in 2013**

Non-County waste received at the El Sobrante Landfill must be delivered in transfer trucks, or transfer-like trucks to mitigate traffic impacts. A transfer-like truck is one that transports a volume of waste to the landfill similar in size and weight to a transfer truck. Two examples of a transfer-like truck are the Heil Star System and the WMS Pod Trucks.

During 2013, non-county waste was primarily delivered to the El Sobrante Landfill from the facilities identified below. These facilities are inspected twice a year by the LEA.

- Azusa Material Recovery Facility, Waste Transfer Station, Azusa, CA
- Carson Transfer Station, Carson, CA
- CLARTS (Central Los Angeles Recycling & Transfer Station), Los Angeles, CA
- Grand Central Recycling and Transfer Station, City of Industry, CA
- Palomar Transfer Station, Carlsbad, CA
- Southgate Transfer Station, Southgate, CA
- West Valley Transfer Station, Fontana, CA

During calendar year 2013, the following out-of County communities delivered more than 1,000 tons of municipal solid waste to the El Sobrante Landfill:

- |                |                        |                           |
|----------------|------------------------|---------------------------|
| - Anaheim      | - Huntington Park      | - Pomona                  |
| - Arcadia      | - Industry             | - Rancho Cucamonga        |
| - Azusa        | - Irwindale            | - Rancho Palos Verdes     |
| - Baldwin Park | - La Puente            | - Redondo Beach           |
| - Bell Gardens | - La Verne             | - Rialto                  |
| - Carlsbad     | - Lomita               | - Rolling Hills Estate    |
| - Carson       | - Long Beach           | - San Bernardino (City)   |
| - Chino        | - Los Angeles (City)   | - San Bernardino (County) |
| - Claremont    | - Los Angeles (County) | - San Diego (City)        |
| - Colton       | - Lynwood              | - San Diego (County)      |
| - Commerce     | - Manhattan Beach      | - San Dimas               |
| - Compton      | - Montclair            | - Santa Clarita           |
| - Diamond Bar  | - Oceanside            | - South Gate              |
| - Duarte       | - Ontario              | - Torrance                |
| - El Monte     | - Orange (City)        | - Upland                  |
| - El Segundo   | - Palos Verdes Estate  | - Vernon                  |
| - Fontana      | - Pasadena             | - Walnut                  |
| - Gardena      | - Pechanga Tribal Land | - West Covina             |

For calendar year 2013, the El Sobrante Landfill also received miscellaneous volumes of municipal solid waste (10 tons to less than 1,000 tons) through transfer stations and through direct haul from private haulers from the following out-of-County communities:

- |                 |                    |                   |                      |
|-----------------|--------------------|-------------------|----------------------|
| - Adelanto      | - Del Mar          | - Lakewood        | - San Leandro        |
| - Agoura Hills  | - Downey           | - Lawndale        | - Santa Ana          |
| - Alhambra      | - El Cajon         | - Loma Linda      | - Santa Fe Springs   |
| - Apple Valley  | - Encinitas        | - Los Alamitos    | - Santa Monica       |
| - Arizona       | - Fullerton        | - Malibu          | - Sierra Madre       |
| - Artesia       | - Garden Grove     | - Maywood         | - Signal Hill        |
| - Barstow       | - Glendale         | - Monrovia        | - Soboba Tribe       |
| - Bell          | - Glendora         | - Montebello      | - Solana Beach       |
| - Bellflower    | - Grand Terrace    | - Monterey Park   | - South El Monte     |
| - Beverly Hills | - Hawthorne        | - Morongo Tribe   | - Temple City        |
| - Bradbury      | - Hermosa Beach    | - Needles         | - Tuolumne County    |
| - Brea          | - Hesperia         | - Nevada          | - Twenty-9 Palms     |
| - Burbank       | - Highland         | - Newport Beach   | - Victorville        |
| - Cerritos      | - Huntington Beach | - Norwalk         | - West Hollywood     |
| - Chino Hills   | - Inglewood        | - Orange (County) | - Westminster        |
| - Chula Vista   | - Irvine           | - Paramount       | - Whittier           |
| - Costa Mesa    | - Kern County      | - Pico Rivera     | - WM-North State Env |
| - Covina        | - La Habra Heights | - Placentia       | - WMIE-G.O.R. Truck  |
| - Cudahy        | - La Mirada        | - Redlands        | - Yorba Linda        |
| - Culver City   | - Laguna Niguel    | - Rosemead        | - Yucaipa            |
|                 | - Lake Forest      | - San Gabriel     | - Yucca Valley       |

### **Projected Waste in 2014**

In 2014, it is projected that there will be an approximately 5.75 percent increase in disposal tonnage, with total disposal tonnage expected to be in range of 2,075,000 tons. Of this amount, the in-County disposal tonnage for 2014 is projected to be approximately 765,000 tons, while out-of-County tonnage is expected to be in the range of 1,310,000 tons.

### **Closure/Post Closure Trust**

No funds were withdrawn from the Closure/Post-Closure Trust for these activities during 2013, and at the end of the calendar year, the market value of the El Sobrante Landfill Trust was approximately \$19,891,931.

### **Local Mitigation Trust Account**

The Local Mitigation Trust, created pursuant the Second Agreement with a deposit of \$150,000 by USA Waste, is for mitigation projects in the local areas surrounding the landfill as recommended by the COC. In 2004, the COC recommended that the entire Local Mitigation Fund be utilized for County efforts to cleanup illegal dumping in the Temescal Valley area along the I-15 corridor from El Cerrito Road south to Lake Street. The BOS approved the COC recommendation on October 19, 2004. At the end of 2008, approximately one-half of the Trust Account had been used in this effort. In 2009, working collaboratively with the County's Code Enforcement Department, the COC recommended that an allocation not to exceed \$10,000 be used toward implementing the Clean Money Youth-Based Fundraising Program in the First and Second Supervisorial Districts. The BOS approved this recommendation on September 1, 2009. At the end of January 2011, approximately \$1,500 remained of the budget allocated for the Clean Money Program and its cleanup events. In March of 2011, the Board of Supervisors approved, per the recommendation of the COC, an additional allocation of \$10,000 to this program. At the end of 2011, the Local Mitigation Trust Account had a balance of approximately \$72,000. In 2012, approximately \$4,000 of the budget allocated for the Clean Money Program was spent on cleanup events, leaving a balance of approximately \$68,000 remaining in the Local Mitigation Trust Account. In 2013, approximately \$2,500 of the budget allocated for the Program was spent on one cleanup event, leaving a remaining balance of approximately \$65,500.

### **General Liability Insurance**

The Certificate of Insurance is an attachment to the AMR.

### **Regulatory Agency Issues**

During 2013, the El Sobrante Landfill was regularly inspected by regulatory agencies, which include the LEA, CalRecycle, the Regional Water Quality Control Board - Santa Ana Region (RWQCB-SAR), and the SCAQMD. The landfill did not have any unresolved compliance issues from these regulatory agencies at the end of 2013. There were also no public complaints registered with the LEA for lighting, noise, or odor.

### **Pending Litigation**

There is no pending litigation against the El Sobrante Landfill.

**Annual Monitoring Report**

**Attachments**

**Exhibit D**

**Certificate of Liability Insurance**

**Landfill Phasing Plan**

EXHIBIT "D"  
EL SOBRANTE LANDFILL  
ANNUAL MONITORING REPORT

1.    Date of Report:                      Reporting Period:
2.    Permits obtained, extended or modified:
3.    Tons of Waste placed in Landfill during reporting period:
4.    Cubic yards of material placed in Landfill during the reporting period:
5.    Changes in Project Plan during reporting period:
6.    Amount of County Waste received during reporting period:
7.    Amount of Non-County Waste received during reporting period:
8.    Average daily rate of tonnage during reporting period:
9.    Average daily tonnage as of last thirty (30) days of reporting period:
10.   Current hours of operation:
11.   Current State requirement for trust balance:
12.   Current State requirement for contributions to Closure/Post-Closure trust:
13.   Amount contributed to State Closure/Post-Closure trust during reporting period:
14.   Amount withdrawn from Closure-Post-Closure trust during reporting period:
15.   Sources of Non-County Waste during reporting period:
16.   Sources of Non-County Waste during last thirty (30) days of reporting period:
17.   Estimated maximum tons per day of Non-County Waste to be received during next reporting period:
18.   Estimated tons per day of County Waste to be received during next reporting period:
19.   Amount contributed to Road Improvement Trust during reporting period:
20.   Insurance carrier for comprehensive general liability policy: (Attach certificate)
21.   List any unresolved complaints from:
  - (a) LEA;
  - (b) California Integrated Waste Management Board;
  - (c) RWQCB-SAR;
  - (d) SCAQMD.
22.   List any pending litigation involving the Landfill:





## CERTIFICATE OF LIABILITY INSURANCE

1/1/2015

DATE (MM/DD/YYYY)  
12/11/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LOCKTON COMPANIES 5847 SAN FELIPE, SUITE 320 HOUSTON TX 77057 866-260-3538	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL:	
	ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED 1300299 WASTE MANAGEMENT HOLDINGS, INC. & ALL AFFILIATE RELATED & SUBSIDIARY COMPANIES INCLUDING: EL SOBRANTE LANDFILL 10910 DAWSON CANYON ROAD CORONA CA 92883	INSURER A:	ACE American Insurance Company 22667
	INSURER B:	Indemnity Insurance Co of North America 43575
	INSURER C:	ACE Property & Casualty Insurance Co 20699
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES CERTIFICATE NUMBER: 10564019 REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDITIONAL SUBROGATION	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU INCLUDED <input checked="" type="checkbox"/> ISO FORM CG 00011207 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	HDO G2732924A	1/1/2014	1/1/2015	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 5,000,000 MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ 5,000,000 GENERAL AGGREGATE \$ 6,000,000 PRODUCTS - COM/OP AGG \$ 6,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> MCS-90 <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	MMT 1108816025	1/1/2014	1/1/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	Y	Y	XOO G27054961	1/1/2014	1/1/2015	EACH OCCURRENCE \$ 15,000,000 AGGREGATE \$ 15,000,000
B A A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/H N	Y	WLR C47876345 (AOS) WLR C47876357 (AZ,CA&MA) SCF C47876369 (WI)	1/1/2014 1/1/2014 1/1/2014	1/1/2015 1/1/2015 1/1/2015	<input checked="" type="checkbox"/> PER STATUTE E.L. EACH ACCIDENT \$ 3,000,000 E.L. DISEASE - EA EMPLOYEE \$ 3,000,000 E.L. DISEASE - POLICY LIMIT \$ 3,000,000
A	EXCESS AUTO LIABILITY	N	Y	XSA H08816013	1/1/2014	1/1/2015	COMBINED SINGLE LIMIT \$9,000,000 (EACH ACCIDENT)

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

BLANKET WAIVER OF SUBROGATION IS GRANTED IN FAVOR OF CERTIFICATE HOLDER ON ALL POLICIES WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT WHERE PERMISSIBLE BY LAW. CERTIFICATE HOLDER IS NAMED AS AN ADDITIONAL INSURED (EXCEPT FOR WORKERS' COMP/EL) WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT.

## CERTIFICATE HOLDER

## CANCELLATION See Attachment

10564019  
COUNTY OF RIVERSIDE  
RIVERSIDE COUNTY WASTE RESOURCES  
MANAGEMENT DISTRICT  
14310 FREDERICK STREET  
MORENO VALLEY CA 92553

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2014 ACORD CORPORATION. All rights reserved.

**POLICY NUMBER: HDO G2732924A**  
**ENDT. #38**

**COMMERCIAL GENERAL LIABILITY**

**NOTICE: THESE POLICY FORMS AND THE APPLICABLE RATES ARE EXEMPT FROM THE FILING REQUIREMENTS OF THE NEW YORK INSURANCE LAW AND REGULATIONS. HOWEVER, THE FORMS AND RATES MUST MEET THE MINIMUM STANDARDS OF THE NEW YORK INSURANCE LAW AND REGULATIONS.**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS (FORM B)**

This endorsement modifies insurance provided under the following:

**COMMERCIAL GENERAL LIABILITY COVERAGE PART**

**SCHEDULE**

**Name of Person or Organization:** COUNTY OF RIVERSIDE AND RIVERSIDE COUNTY WASTE  
RESOURCES MANAGEMENT DISTRICT

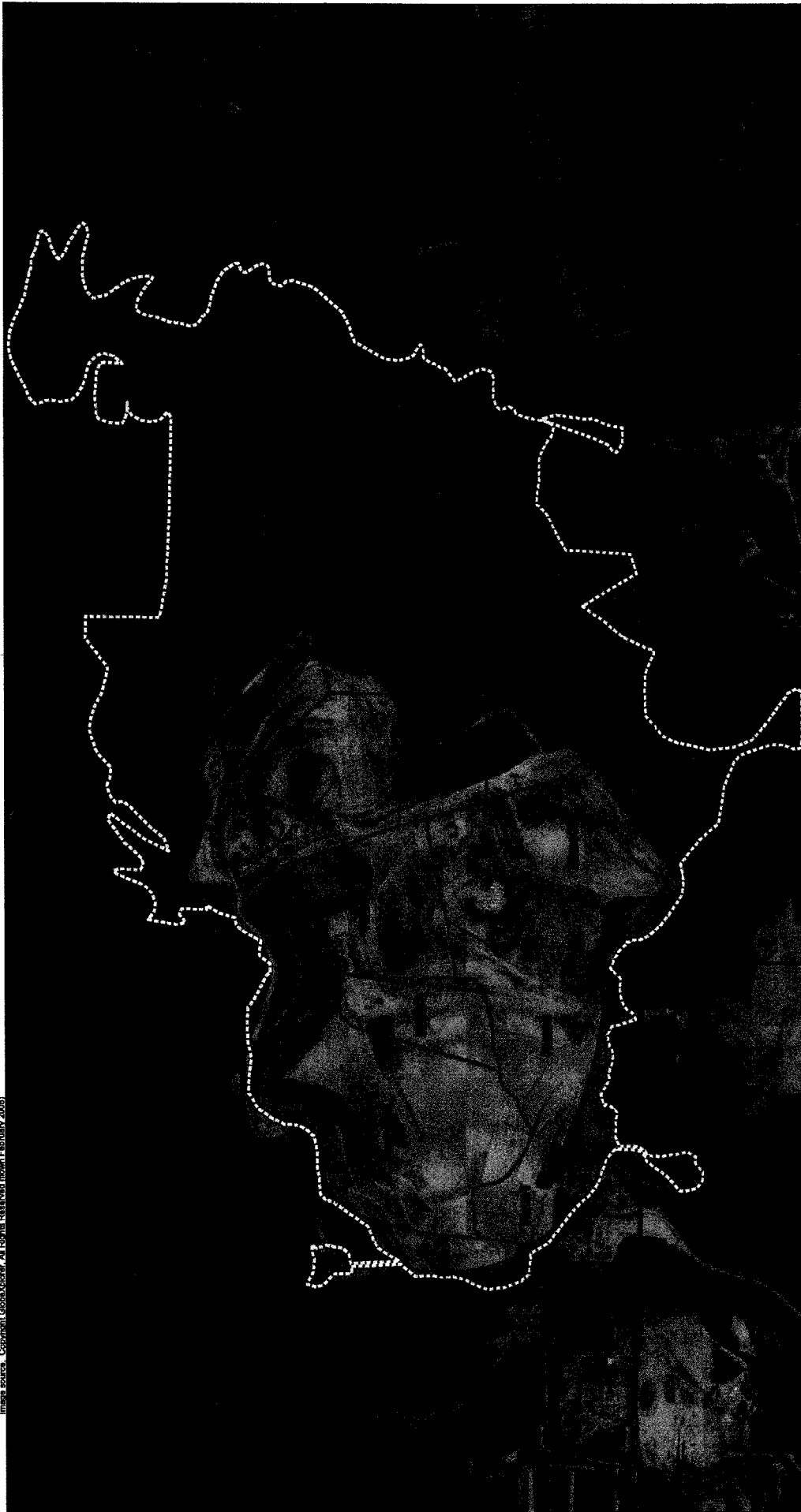
(If no entry appears above, information required to complete this endorsement would be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you.

CG 20 10 11 85

Copyright, Insurance Services Office, Inc., 1984

Image source: Copyright GlobalVista, All Rights Reserved from February 2009



0 Feet 760

- Plan Area
- Expansion Phases
- Expansion Limits

# EXHIBIT 1 El Sobrante Landfill Phasing Plan

RECON

M:\Jobs\3281-2\commnal\_gis\GIS\SOB\Status\_Review\fig mod 032210

## **2013 Conditions of Approval Status Report**

**El Sobrante Landfill  
2013 Conditions of Approval  
Status Report**

**December 2014**

**Transportation Department Conditions of Approval:**

1. Upon permit approval, USA Waste shall immediately amend their operating plan to require all trucks hauling out of county imported waste to exclusively utilize the Temescal Canyon Road Interchange at 1-15 for access to and from the landfill site.

**Status:** This Condition of Approval is substantially the same as Mitigation Measure T-4. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

2. Within 90 days of permit approval, the applicant shall pay a Traffic Signal Mitigation Fee in accordance with Riverside County Ordinance No. 748. Said fee shall be based upon industrial/per net acre. The project net acreage is 4.5 acres. The remaining acreage is not subject to mitigation at this time. (See Table 1 for estimated costs)

**Status:**

No activity in 2013. All plan check and mitigation fees were paid prior to road construction in 2003.

3. Within three (3) months after the Start Date, USA Waste shall commence construction of and diligently pursue the completion of the following road improvements:
  - a. An additional lane in each direction on Temescal Canyon Road from I-15 Northbound on/off-ramps to the El Sobrante Access Road. The structural section of the additional lanes shall satisfy a Traffic Index of 11.5.

**Status:**

No activity in 2013, construction was completed in 2003.

- b. Eight-foot paved shoulder on the west side of Temescal Canyon Road adjacent to the intersection of Temescal Canyon Road and the El Sobrante Access Road.

**Status:**

No activity in 2013, construction was completed in 2003

- c. Improvements of the intersection of Temescal Canyon Road/El Sobrante Access Road to provide the following intersection geometrics and any required widening:

Westbound: One right turn lane and one left turn lane on the El Sobrante Access Road. This improvement to be accomplished in conjunction with the improvements to the lower portion of the El Sobrante Access Road as required by Condition No. 3d.

Southbound: None

Northbound: Extend existing right turn lane on Temescal Canyon Road.



**Status:**

No activity in 2013, construction was completed in 2003

- d. Improve the lower portion of the El Sobrante Access Road (from the intersection of Temescal Canyon Road to the cul-de-sac) so that it will meet a Traffic Index of 11.5, and so that it complies with Standard 106-B for improved drainage protection from the 100-year, 24-hour storm, or as approved by the Director of the County Transportation Department. The improvement of the lower portion of the Access Road shall be designed based on direction of the Riverside County Flood Control District and maximum water depth of 9 inches across the Access Road, generally as depicted in the attached exhibit -"Proposed Conceptual Access Road Improvements." Coldwater Wash Channel improvements and rock slope protection shall continue southeasterly from the access road along the entire length of Temescal Canyon Road to the Hydro-Conduit driveway as approved by the Transportation Department.

**Status:**

No activity in 2013, construction was completed in 2003

- e. The applicant shall construct the following traffic signals (these signals are over and above the Traffic Signal Mitigation Fee payment made by the applicant pursuant to County Ordinance No. 748, and are not subject to credit or reimbursement):  
Temescal Canyon Road (E/W) at:
  - i. El Sobrante Access Road.
  - ii. I-15 Northbound on/off ramps (as approved by Caltrans).
  - iii. I-15 Southbound on/off ramps (as approved by Caltrans).

**Status:**

No activity in 2013, construction was completed in 2003

- 4. Within three (3) months after the Start Date, USA Waste or its successor-in-interest shall initiate construction and diligently pursue to completion the following road improvements at the intersections of Temescal Canyon Road with Southbound and Northbound 1-15 on/off ramps to provide the following intersection geometries, including any required widening or as approved by Caltrans and the Riverside County Transportation Department.

Eastbound: An additional through lane on Temescal Canyon Road between Southbound and Northbound on/off-ramps.

Westbound: An additional through lane on Temescal Canyon Road between Southbound and Northbound on/off-ramps, and one right turn lane from Temescal Canyon Road onto Northbound on-ramp.

Southbound: One left turn lane on off-ramp.

Northbound: An additional lane on on-ramp.

**Status:**

No activity in 2013, construction was completed in 2003

5. Within 90 days following the end of calendar year in which the total tonnage of waste landfilled at El Sobrante exceeds 1,440,000 tons, USA Waste shall establish and be responsible for a Development Monitoring Program which shall include the following:
  - a. Consult with and obtain clearance from Caltrans District 8 and the South Coast Air Quality Management District to assure compliance and coordination with the Regional Mobility and Air Quality Management Plans.

**Status:**

No activity in 2013, plan submitted in 2003 and is included in the appendix.

- b. Develop a program to minimize in and outbound transfer trucks during peak hours.

**Status:**

The 2007 Second Amendment to the Second Agreement revised Section 11.10(b) to require commercially reasonable efforts to schedule deliveries during off peak hours, and to require a specified tonnage of waste to be received during night-time hours. All deliveries from Waste Management companies have been notified of this requirement and are encouraged to deliver during night-time hours. In addition, an electric "geofence" has been established to track internal deliveries and all transfer vehicles are discouraged from using SH91 during peak hour traffic as identified in the EIR.

- c. A construction traffic control plan for offsite, public roads shall be developed to control construction-related traffic impacts during periodic construction of landfill cells to reduce construction related traffic impacts to local residents and businesses.

**Status:**

No construction in 2013.



#### **Riverside County Conditions of Approval:**

1. USA WASTE OF CALIFORNIA, INC. ("USA WASTE") or its successor-in-interest shall defend, indemnify, and hold harmless the County of Riverside, its agents, officers, and employees from any claim, action, or proceeding against the County of Riverside or its agents, officers, or employees to attack, set aside, void or annul an approval of the County of Riverside, its advisory agencies, appeal boards or legislative body concerning Environmental Impact Report for the El Sobrante Landfill Expansion Project (State Clearinghouse No. 90020076) and the Second El Sobrante Landfill Agreement. The County of Riverside will promptly notify USA WASTE or its successor-in-interest of any such claim, action, or proceeding against the County of Riverside and will cooperate fully in the defense. If the County fails to promptly notify USA WASTE or its successor-in-interest of any such claim, action, or proceeding or fails to cooperate fully in the defense, USA WASTE or its successor-in-interest shall not, thereafter, be responsible to defend, indemnify, or hold harmless the County of Riverside.

**Status:**

No activity in 2013, no litigation was filed challenging the approval of the County or the EIR.

2. These Conditions and those mitigation measures outlined in the EIR shall be implemented and monitored in accordance with the MMP. USA WASTE or its successor-in-interest shall comply with the MMP.

**Status:**

Compliance with Measure T-3 cannot be definitively determined in the 2013 Annual Report; however, monitoring data from WMI's GPS tracking program, "geo-fence", will be available for evaluation in the 2014 Annual Report. This will provide clarity regarding the routes of WMI/USA Waste's transfer truck fleet, which accounts for at least 60% of the transfer trucks utilizing the El Sobrante Landfill.

During the January 14, 2015, ARC meeting, staff was directed to perform additional research regarding WMI's compliance with Measure W-14. Specifically, staff will review the Landfill Expansion EIR and 1994 Water Resources Technical Report, to determine the relationship, if any, with a proposed 'cut-off' wall and its application to Measure W-14.

With the exception of semi-yearly monitoring of recorded cultural resources within the landfill property, as required under mitigation measure C-4, USA Waste has submitted the required reports and documentation where applicable, to the agencies responsible for implementation/monitoring of the conditions and mitigation measures in accordance with the approved MMP. To address measure C-4, USA Waste shall begin monitoring and reporting as required, documenting compliance in future annual reports.

3. USA WASTE or its successor-in-interest shall comply with the conditions set forth in the County Transportation Department letter, dated March 27, 1998, a copy of which is set forth as a portion of Exhibit "E" of the Agreement.

**Status:**

USA WASTE is in compliance with the County Transportation Department conditions identified in "Exhibit E" of the Agreement.

4. The development of the El Sobrante Landfill Expansion Project shall be in accordance with the mandatory requirements of all applicable Riverside County ordinances and shall conform substantially with the project description in the EIR (State Clearinghouse No. 90020076), as filed in the office of the Riverside County Waste Management Department.

**Status:**

This Condition of Approval is the same as Mitigation Measure L-1. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

5. Whenever a specified material, design, system or action is required by the project or any exhibit thereto, USA WASTE or its successor-in-interest may substitute such material, design, system or action, provided that:
  - a) Such material, design, system or action complies with all applicable Federal, State, and local regulations; and,
  - b) Any Federal, State or local regulatory agency having jurisdiction has approved the use of the material, design, system or action for similar facilities (i.e., Class III landfills); and,
  - c) The General Manager-Chief Engineer of the Riverside County Waste Management Department, with concurrence of the appropriate regulatory agency(ies), has determined that such material, design, system or action is technically equal, or superior to, those required in these conditions.

**Status:**

This Condition of Approval is the same as Mitigation Measure W-14. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

6. Transportation of out-of-County waste from areas other than Los Angeles County, Orange County, San Bernardino County, and San Diego County shall not be permitted without additional environmental review and approval.

**Status:**

This Condition of Approval is the same as Mitigation Measure T-2. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

7. Out-of-County waste from Los Angeles County, Orange County, and San Diego County shall be transported to the El Sobrante Landfill by transfer trucks, and not packer trucks.

**Status:**

This Condition of Approval is the same as Mitigation Measure T-1. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

8. Out-of-County waste from San Bernardino County may be transported to the El Sobrante Landfill by packer truck up until July 1, 2000, at which time the waste from San Bernardino County shall be transported by transfer trucks.

**Status:**

Except as noted below, all waste deliveries from San Bernardino County in 2013 were in transfer trucks. Minor amounts from public customers or small commercial haulers may enter from time to time, as allowed by the RCWMD scale attendants.

9. a. The liner system (inclusive of the bottom liner and the sideslope liner) of the landfill shall exceed the requirements of Subtitle D and California Code of Regulations (CCR) Title 27 and shall be composed of the alternative bottom liner (identified as Alternative Bottom Liner B2) and the alternative sideslope liner (identified as Sideslope Liner Alternative S2), which are both described and evaluated in *Evaluation of Liner System Alternatives, El Sobrante Landfill Expansion, Riverside County, California*, prepared by GeoSyntec Consultants and dated February 1998.
- b. If it is determined that this liner system alternative will not meet the requirements of the regulatory agencies, a substitute liner system must be approved by the regulatory agencies, and evidence of such a determination shall be forwarded to the El Sobrante Landfill Administrative Review Committee of Riverside County. In this event, the substitute liner system shall be composed of a bottom liner and sideslope liner that are at least equal to Alternative Bottom Liner B2 and Sideslope Liner Alternative S2, respectively, and must be approved by the Administrative Review Committee.

**Status:**

This Condition of Approval is the same as Mitigation Measure W-8. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

10. The final cover of the landfill shall conform to Subtitle D and CCR Title 23 and shall consist of a minimum of four (4) feet of vegetative layer, in accordance with the augmented cover described in the EIR (State Clearinghouse No. 90020076). Any change from the augmented cover shall require clearance from the Riverside County Waste Management Department, the California Integrated Waste Management Board, Regional Water Quality Control Board, the U.S. Fish and Wildlife Service, and the California Department of Fish and Game.

**Status:**

This Condition of Approval is the same as Mitigation Measure W-10. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

11. Prior to any offsite grading, USA WASTE or its successor-in-interest shall obtain and record appropriate offsite easements.

**Status:**

This Condition of Approval is the same as Mitigation Measure L-2. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

12. Prior to construction and construction/operation activities, the following pre-monitoring measures shall be implemented to avoid or lessen boundary concentrations of NO<sub>2</sub>:

- a. Normal landfill operations and cell construction/closure activities shall be preplanned to avoid potentially adverse alignments (both horizontally and vertically) during anticipated periods of meteorological conditions which could result in the greatest property boundary concentration.
- b. During periods when both disposal and construction activities are occurring, downwind property line monitoring of NO<sub>2</sub> shall be implemented for wind and stability conditions which could result in the highest boundary concentrations.

**Status:**

This Condition of Approval is the same as Mitigation Measure AQ-11. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

13. During construction and construction/operation activities, the following post-monitoring measures shall be implemented to avoid or lessen boundary concentrations of NO<sub>2</sub>:

- a. If monitoring determines that the 1-hour NO<sub>2</sub> standard (i.e., 470 ug/m<sup>3</sup>) is being approached (i.e., within 95 percent of the standard or approximately 450 ug/m<sup>3</sup>), construction or cell closure activities shall be curtailed until the appropriate tiered mitigation measures can be implemented, or until adverse meteorological conditions no longer exist.
- b. The waste placement and/or clay preparation areas shall be moved to a preplanned alternative working location to separate emissions from clay placement construction emissions.
- c. Construction procedures shall be configured such that operations requiring heavy equipment do not occur simultaneously (e.g., clay placement and protective soil placement by scrapers will not be done during periods with adverse meteorological conditions).
- d. Construction scheduling will be slowed to reduce daily equipment usage.
- e. Hours of construction with designated pieces of equipment (e.g., scrapers) shall be constrained to occur outside of peak adverse meteorological conditions.

**Status:**

This Condition of Approval is the same as Mitigation Measure AQ-11. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

14a. A Citizen Oversight Committee shall be formed by the Board of Supervisors pursuant to Board Policy A-21 upon approval of the project. The Citizen Oversight Committee shall be composed

of a total of five (5) members, whose term of service will be established upon formation of the Committee. Three (3) of the five (5) members will be appointed by the Supervisor of the district in which the landfill is located. Of these three (3), two (2) members must reside within a three (3) mile radius of the landfill property. One (1) member shall be a representative from a corporate operation within a three (3) mile radius of the landfill property. The remaining two (2) members will be appointed by the entire Board of Supervisors and shall be chosen at large to represent the affected communities of interest.

**Status**

This Condition of Approval is the same as Mitigation Measure L-3. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

- b. The Citizen Oversight Committee shall meet at least once annually to review the Annual Status Report submitted by the Administrative Review Committee, which will include all the reports and data that will be provided by USA WASTE or its successor-in-interest, and shall submit written comments on the project to the Board of Supervisors as they deem necessary.

**Status:**

This Condition of Approval is the same as Mitigation Measure L-4. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

- 15a. USA WASTE or its successor-in-interest shall deposit 50 cents per ton into a Third Party, Environmental Impairment Trust, which fund shall be established and maintained throughout the life of the project. Any balance in the existing fund contributed by USA WASTE or its successor-in-interest under the First El Sobrante Landfill Agreement, as amended, shall continue to accrue with deposits from all waste delivered to the site on or after the start date, including interest earnings on the funds, until the fund has reached a total of \$2,000,000, at which time deposits may be discontinued until withdrawals cause the fund to fall below the \$2,000,000 cap. The cap shall increase annually by 90% of the change in the Consumer Price Index (CPI) starting in the year 2002.

**Status:**

This Condition of Approval is the same as Mitigation Measure W-15. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

- b. Monies may be withdrawn from the Environmental Impairment Trust only for environmental remediation purposes with approval by USA WASTE or its successor-in-interest and the General Manager-Chief Engineer of the Riverside County Waste Management Department. The Trustee shall be required to report quarterly to the Department on all fund activity and balances.

**Status:**

This Condition of Approval is the same as Mitigation Measure W-16. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

16. Except for vehicles collecting waste in the immediate vicinity of the landfill, USA WASTE's or its successor's-in-interest collection vehicles delivering waste from in-County to be disposed at El Sobrante shall utilize only that portion of Temescal Canyon Road between its intersection with I-15 and the landfill access road for all trips (both inbound and outbound), except in the event of a closure of the on/off ramps at Temescal Canyon Road and I-15.

**Status:**

This Condition of Approval is the same as Mitigation Measure T-5. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

17. Wherever feasible, temporary earthen or landscape berms, or other structures or measures, shall be utilized to reduce potential noise and glare impacts on surrounding residents from nighttime activities at the working face of the landfill. Any measures implemented for this purpose shall be subject to annual review by the Citizen Oversight Committee.

**Status:**

This Condition of Approval is substantially the same as Mitigation Measures A-6 and N-7. A discussion of status will be provided in those portions of the 2013 Mitigation Monitoring Program Status Report.

18. USA WASTE or its successor-in-interest shall include the County in all aspects of the Section 7 Consultation and Streambed Alteration processes and shall work cooperatively with the County in developing the final agreement with the appropriate federal and state agencies that will allow a portion of the trust fund monies to be used to satisfy other County obligations or goals related to multi-species habitat acquisition and management.

**Status:**

This Condition of Approval is substantially the same as Mitigation Measure B-16. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

- 19a. In the event any official or employee for USA WASTE or its successor-in-interest or any environmental or design professional hired by USA WASTE or its successor-in-interest, is indicted by a grand jury, named as a defendant in a felony complaint filed in any court in the United States, or is otherwise alleged to have participated in any criminal activity directly or indirectly associated with the solid waste management business, activities or operations of USA WASTE or its successor-in-interest, USA WASTE or its successor-in-interest shall provide notice thereof to the County within 7 days of such indictment, complaint or allegation. Such notice shall contain a description of the indictment, complaint or allegation, as well as a copy of such indictment or complaint or other matters of public record related thereto. In addition to the foregoing, USA WASTE or its successor-in-interest shall provide the County with copies of any reports required to be prepared by USA WASTE or its successor-in-interest pursuant to federal securities laws, including quarterly and annual reports.

**Status:**

USA Waste has no such matters to report.

- b. In the event any official or employee for USA WASTE or its successor-in-interest or any environmental or design professional hired by USA WASTE or its successor-in-interest, who has direct responsibility for any phase of the development or operations at El Sobrante Landfill, including but not by way of limitation, any similar personnel for USA WASTE or its successor-in-interest having a responsibility for transferring or delivering waste to the Project, is convicted, indicted by a Grand Jury, or named as a defendant in a felony complaint filed in the Superior Court or a complaint filed in Federal Court associated with conduct of doing business for USA WASTE or its successor-in-interest, this person shall upon written request from the County be immediately removed from any assignment whatsoever, directly associated with the development or operation of the El Sobrante Landfill during the pendency of trial and/or following conviction.

**Status:**

USA Waste has no such matters to report.

- c. In the event any director, official or employee of USA WASTE or its successor-in-interest ever be convicted of a felony associated with the solid waste management business, said director, official or employee will be immediately terminated.

**Status:**

USA Waste has no such matters to report.

- 20a. Within three (3) years of the Start Date, USA WASTE or its successor-in-interest shall submit to the County of Riverside an evaluation of the technological and economical feasibility of using natural gas fuel or other alternative fuel in transfer trucks. The technological feasibility of the evaluation shall include review comments by the South Coast Air Quality Management District. The evaluation shall be subject to County approval. If the County finds that natural gas fuel or other alternative fuel in transfer trucks is technologically and economically feasible, USA WASTE or its successor-in-interest shall develop and implement a program to phase-in transfer trucks capable of using these fuels. The program shall be subject to County approval.

- b. If the County concludes that transfer trucks capable of using alternative fuels are not technologically and economically feasible, USA WASTE or its successor-in-interest shall periodically re-evaluate the feasibility of using alternative fuels in transfer trucks. Such re-evaluations shall be at least every three (3) years. USA WASTE or its successor-in-interest shall, however, conduct such a re-evaluation anytime deemed appropriate by the County.

**Status:**

This Condition of Approval is the same as Mitigation Measure AQ-12. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.

21. USA WASTE or its successor-in-interest shall consult with Caltrans regarding the length of the left turn lane on the southbound off ramp from 1-15 to Temescal Canyon Road. The length of the left turn lane shall be sufficient to assure that trucks in the left turn lane do not interfere with vehicles in the right turn lane of the off ramp.

**Status:**

No activity in 2013, road improvements completed in 2003.

22. The Administrative Review Committee (formed pursuant to Section 13 of the Second El Sobrante Landfill Agreement) shall have the following functions:
- a. Review and approval of minor changes to the landfill site plan and/or project plan, which are exempt under the California Environmental Quality Act (CEQA). Changes to the landfill site plan and/or project plan that require revisions to the landfill's operating permits or that require additional CEQA analysis must be reviewed and approved by the Board of Supervisors and the appropriate regulatory agencies.
  - b. Review Mitigation Monitoring Reports submitted by USA WASTE or its successor-in-interest.
  - c. Require USA WASTE or its successor-in-interest to submit additional information regarding performance at the landfill for review.
  - d. Solicit and consider input received from the Citizens Oversight Committee.
  - e. Solicit input from technical experts necessary to perform the review.
  - f. Within 60 days of its annual meeting, the Administrative Review Committee will submit an annual report to the Board of Supervisors and the Citizens Oversight Committee regarding the conformance status of USA WASTE or its successor-in-interest with the conditions imposed on the project. A copy of the Annual Status Report is to be made available for public review at accessible locations.

**Status:**

No minor changes to the landfill site plan were submitted to Administrative Review Committee (ARC) in 2013. In 2013, the ARC reviewed the 2012 Annual Status Reports, solicited comments from the COC, and submitted the Annual Report to the Board of Supervisors.

- 23a. USA WASTE or its successor-in-interest shall be responsible for the control and cleanup of litter and debris from the landfill and/or waste-hauling vehicles along the landfill access road to its intersection with Temescal Canyon Road, along Temescal Canyon Road between the landfill access road and the intersection of Interstate 15 (I-15) and Temescal Canyon Road.
- b. At a minimum, USA WASTE or its successor-in-interest shall inspect and remove litter and debris from these roadways on a weekly basis and within 48 hours upon receipt of notice or complaint.

**Status:**

This Condition of Approval is substantially the same as Mitigation Measure A-7. A discussion of status will be provided in that portion of the 2013 Mitigation Monitoring Program Status Report.



# **Conditions of Approval Status Report**

## **Appendix**

### **County Transportation Department Condition #5**

**Development Monitoring Program- URS Memorandum**



**EL SOBRANTE LANDFILL**

PO Box 77908  
10910 Dawson Canyon Road  
Corona, CA 92877-0130  
(909) 277-1740  
(909) 277-1861 Fax

November 5, 2003

Ms. Leslie Likins  
Riverside County Waste Management Department  
14310 Frederick Street  
Moreno Valley, CA 92553

Subject: Transmittal of the Development Monitoring Program for minimizing transfer truck volume during peak traffic periods, El Sobrante Landfill, Corona, California.

Dear Ms. Likins:


Condition number five of the Transportation Department, March 27, 1998, letter referenced as Exhibit "E" of the Second Agreement, requires the El Sobrante Landfill to develop a program to minimize in and outbound transfer trucks during peak hours.

In order to comply with condition number 5, El Sobrante contracted with the consulting firm URS to conduct a status report and develop a monitoring program. I apologize that this report is being delivered late, but we had extreme difficulty in getting Caltrans District 8 and the South Coast Air Quality Management District to understand our needs and to respond in a timely manner.

Based on the information contained within the report, it is apparent that an ongoing Development Monitoring Program is unwarranted. Therefore, El Sobrante Landfill believes this condition to be complete and will not be developing an ongoing Development Monitoring Program.

Enclosed are three copies of the transportation Development Monitoring Program for the El Sobrante Landfill. If you have any question please call me at (909) 277-5103.

Sincerely,



Damon De Frates  
District Manager



# Memo

1615 Murray Canyon Road, Suite 1000  
San Diego, CA 92108  
(619) 294-9400 Tel  
(619) 293-7920 Fax

**Date:** August 7, 2003  
**To:** Mr. Damon DeFrates, Waste Management  
**From:** Sam Morrissey, URS  
**Subject:** Development Monitoring Program for the El Sobrante Landfill

This report documents the Development Monitoring Program for the El Sobrante Landfill site in Riverside County. The preparation of a Development Monitoring Program was specified as a condition of approval for the expansion of the El Sobrante Landfill in 1996 and required the following transportation related conditions of approval:

1. Consultation with Caltrans District 8 and the South Coast Air Quality Management District (SCAQMD) to assure compliance and coordination with the Regional Mobility and Air Quality Management Plans.
2. Development of a program to minimize in and outbound transfer trucks during peak hours.
3. Development of a construction traffic control plan for offsite, public roads to control construction-related traffic impacts during periodic construction of El Sobrante Landfill cells to reduce construction related traffic impacts to local residents and businesses.

This memorandum describes the compliance to the three conditions of approval listed above.

## 1.0 Transportation Related Condition of Approval - Item 1

*"Consultation with Caltrans District 8 and the South Coast Air Quality Management District (SCAQMD) to assure compliance and coordination with the Regional Mobility and Air Quality Management Plans."*

The Regional Mobility Plan (produced by the Southern California Association of Governments) as well as the Air Quality Management Plan (produced by SCAQMD) have been reviewed, and were found to contain no specific requirements pertaining to the traffic generated by the El Sobrante Landfill. Representatives from Caltrans District 8 and the SCAQMD were consulted and contact information and associated correspondence materials are included in Appendix A. A summary of the discussions with both Caltrans District 8 and SCAQMD is provided as follows:

Discussions with Caltrans District 8  
(Contact: Rosa Clarke, Caltrans District 8, 909.383.6908)

Caltrans District 8 staff reviewed information related to the El Sobrante Landfill, including documents and portions of the 1996 EIR document (Final Environmental Impact Report, EL Sobrante Landfill

Expansion, State Clearinghouse No. 90020076, April 1996) and correspondence produced in 1997. Caltrans District 8 issued no comments on the 1996 EIR, and subsequent correspondence issued in 1997 stated that the El Sobrante Landfill was in compliance and all mitigation measures for the state highway system had been provided, as specified in the 1996 EIR. All improvements to the intersections of Ternescal Canyon Road at the Interstate 15 northbound and southbound ramps having been provided, as well as all additional improvements to the Interstate 15 ramps. Based on this finding, the El Sobrante Landfill is in compliance and conformance with Caltrans District 8.

Discussions with South Coast Air Quality Management District  
(Contact: Yvonne Sells, SCAQMD, 909.396.3287)

SCAQMD staff reviewed the Air Quality Management Plan (AQMP) and agreed that no element of the AQMP is applicable to El Sobrante Landfill site traffic. SCAQMD staff suggested that Caltrans District 8 staff should be consulted in order to ensure that the El Sobrante Landfill had provided all mitigation measures stipulated in the Conditions of Approval that resulted from the 1996 EIR. Based on this finding, the El Sobrante Landfill is in compliance and conformance with SCAQMD.

**CONCLUSION:** Based on discussions and coordination with Caltrans District 8 and the South Coast Air Quality Management District, the El Sobrante Landfill is in compliance with and consistent with the requirements of the Regional Mobility and Air Quality Management Plans and appropriate clearance has been indicated by staff of the respective agencies.

**2A Transportation Related Condition of Approval - Item 2**

*"Development of a program to minimize in and outbound transfer trucks during peak hours."*

The operation of the El Sobrante Landfill by necessity results in a pattern of early AM and mid-day transfer truck activity, generally coinciding with the off-peak traffic periods of the adjacent roadway systems. The extent to which transfer truck traffic is minimal during peak hours was documented by review of the existing El Sobrante Landfill trip generation, the trip distribution to the adjacent roadway system and the hourly flows of El Sobrante Landfill traffic. This section also documents the trip generation, distribution, and hourly flows for El Sobrante Landfill traffic at the maximum allowed processing levels.

El Sobrante Landfill Trip Generation

Waste Management, Inc. maintains detailed records of arrivals and departures of all vehicular traffic associated with the El Sobrante Landfill. Table 1 summarizes the total average vehicle arrivals by vehicle type at the El Sobrante Landfill during the week of March 24, 2003. Table 1 also displays El Sobrante Landfill trips generated during the peak hours of the adjacent roadway system. The peak hours of the adjacent roadway system were determined based on available Caltrans traffic count data. The information on Table 1 was utilized as the basis for understanding daily and peak hour trip generation associated with the El Sobrante Landfill. Appendix B displays El Sobrante Landfill traffic arrivals by vehicle type on an hour-by-hour basis.

**Table 1**  
**Existing Average Daily and Peak Hour Vehicle Arrivals at the El Sobrante Landfill**

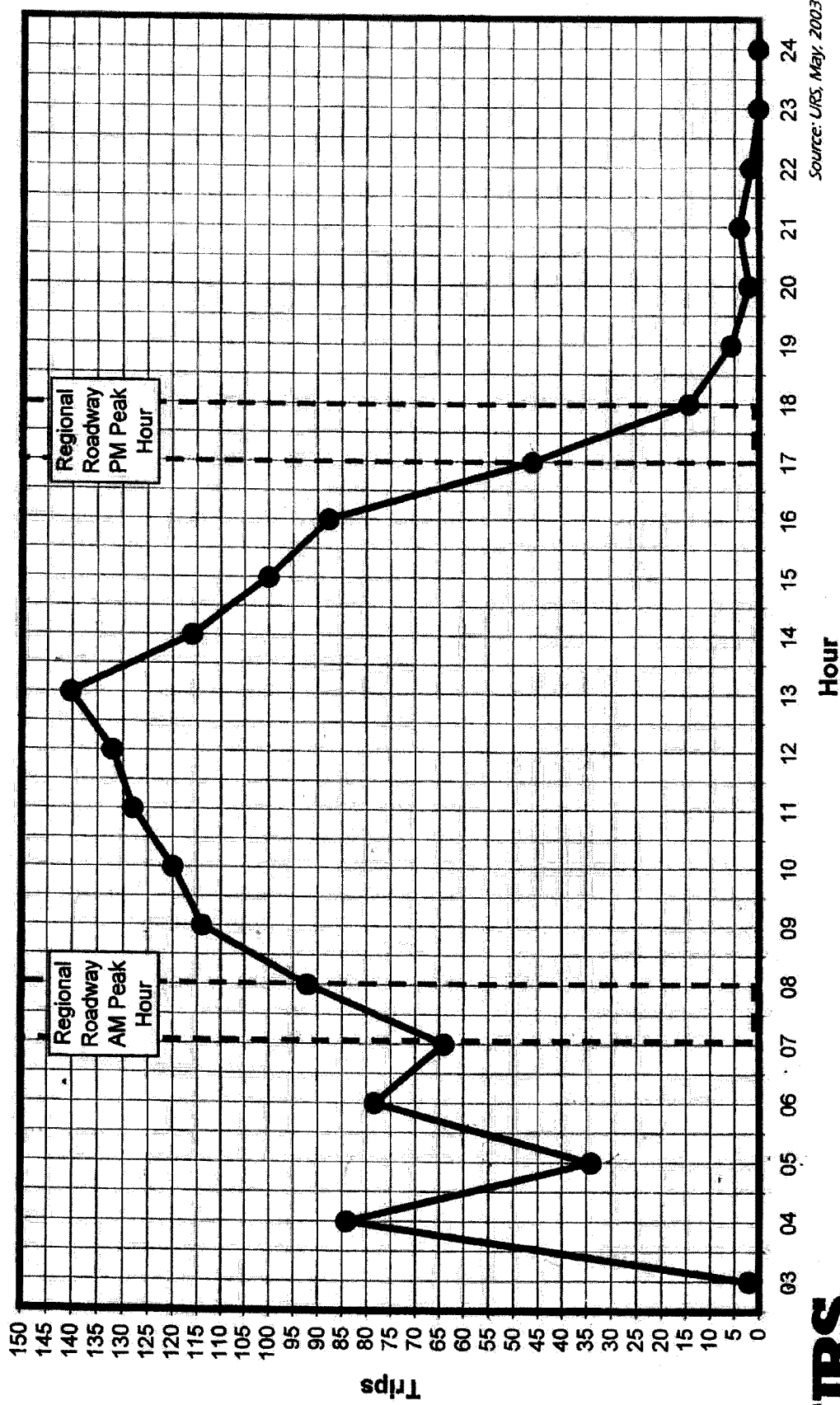
Vehicle Type	Total Daily (vpd)	AM Peak Hour (7AM – 8AM) (vph)	PM Peak Hour (5PM – 6PM) (vph)
Car or Station Wagon	4	0	0
Van, Pickup Truck or Trailer (3 tons)	38	2	2
Truck or 2-Wheel Trailer	156	9	8
Car, Van, or Truck Pulling 2 Wheel Trailer	7	0	0
10-15 Wheel Truck or Tractor Trailer	27	4	1
18 Wheel Tractor Trailer	18	2	0
Commercial Hauler (Non-compacted)	29	2	2
6 Wheel Truck (over 2 tons capacity)	56	3	2
Commercial Waste Hauler (compacted)	74	5	4
Transfer Trailer	273	18	5
Stack Transfer	2	0	0
<b>Total Arrivals</b>	<b>683</b>	<b>46</b>	<b>23</b>
<b>TOTAL DAILY TRIPS</b>	<b>(683 x 2) = 1,366 daily trips</b>	<b>(46 x 2) = 92 AM peak hour trips</b>	<b>(23 x 2) = 46 PM peak hour trips</b>

Source: Waste Management, Inc., March 2003

As shown in Table 1, there is currently an average of 683 daily vehicle arrivals at the El Sobrante Landfill; with 46 AM peak hour arrivals and 23 PM peak hour arrivals. Note that the peak hours represent the peak hours of the adjacent roadway system, and not the peak hours of the El Sobrante Landfill operation. The daily and peak hour vehicle arrivals were multiplied by two (2) to obtain total daily and peak hour trip generation for the El Sobrante Landfill. By this calculation, the El Sobrante Landfill currently generates 1,366 total daily trips, 92 AM peak hour trips, and 46 PM peak hour trips.

Of the total daily trips generated by the El Sobrante Landfill, approximately 7% and 3% occur during the AM and PM peak hours, respectively, of the adjacent roadway system, with 90% of all traffic generated by the El Sobrante Landfill occurring during the off-peak traffic periods.

Figure 1 displays the temporal pattern of El Sobrante Landfill trips over a 24 hour period. As shown, the peak hour of trip generation at the El Sobrante Landfill occurs at approximately 1:00 PM, with 140 trips. In relation to the peak hours of the adjacent and nearby roadways, the majority of the El Sobrante Landfill traffic occurs before the AM peak hour and during the midday periods prior to the PM peak hour.



**URS**

**El Sobrante Landfill  
Development Monitoring Program**

**Figure 1  
Average Hourly Trip Generation**

Source: URS, May, 2003

*El Sobrante Landfill Truck Traffic Trip Distribution and Trip Assignment*

The total daily and peak hour Landfill trips were distributed to the adjacent and nearby roadways and freeways to assess the level of El Sobrante Landfill traffic contribution to the overall traffic on these transportation facilities.

Figure 2 displays the trip distribution assumed in the preparation of the Development Monitoring Program for the El Sobrante Landfill. The trip distribution was developed based upon a review of previous traffic studies for the El Sobrante Landfill, as well as conversations with Waste Management staff. As shown, roughly 65% of all traffic generated by the El Sobrante Landfill currently originates at points west of I-15, and utilizes SR-91 for primary access to I-15 and the El Sobrante Landfill.

Figure 3 displays the assignment of total daily and peak hour traffic associated with the El Sobrante Landfill to the adjacent roadway system.

*Percent of Daily and Peak Hour Traffic (Existing Processing Level of Approximately 7,800 tons/day)*

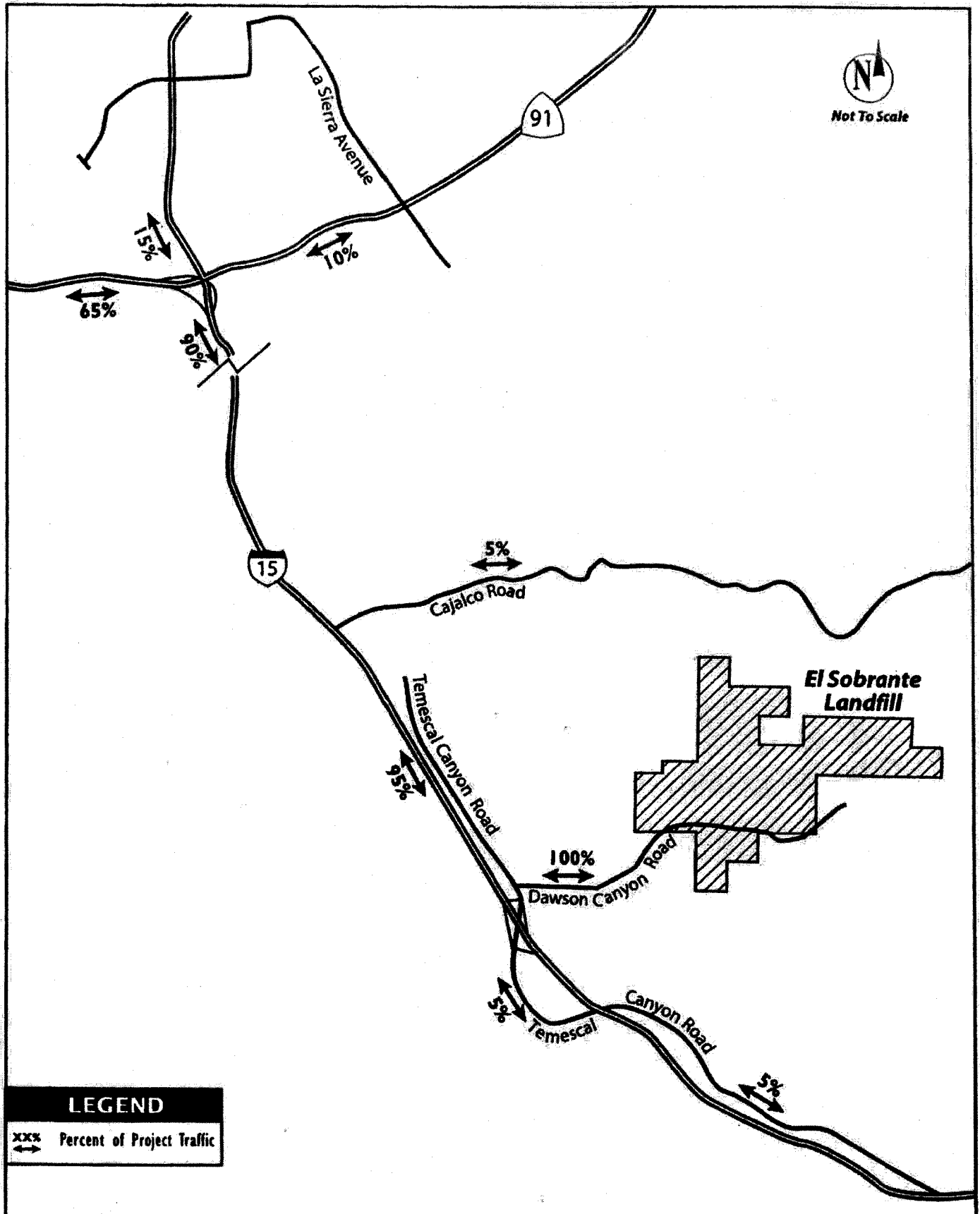
This section summarizes traffic volumes on roadways within the vicinity of the El Sobrante Landfill and the percent contribution associated with the El Sobrante Landfill traffic. Existing traffic count data was obtained from Caltrans and the County of Riverside, as displayed in Appendix C. Figure 4 displays total daily traffic volumes on study area roadways.

Table 2 presents total Average Daily Traffic (ADT) volumes, total trips associated with the El Sobrante Landfill, and the percent of total ADT represented by the El Sobrante Landfill traffic.

**Table 2**  
**Average Daily Traffic Volumes Existing Conditions (~7,800 tons/day)**  
**El Sobrante Landfill Study Area Roadways**

Roadway	Segment	Total Average Daily Traffic Volume	El Sobrante Landfill Daily Trips	Percent of Total Daily Traffic Generated by El Sobrante Landfill
SR-91	N. Main Street to I-15	247,200	888	0.4%
	I-15 to McKinley Street	216,300	137	0.06%
	SR-91 EB to I-15 SB Connector Ramp	57,000	888	1.6%
I-15	I-15 NB to SR-91 WB Connector Ramp	27,000	888	3.3%
	SR-91 to Cajalco Road	156,100	1,230	0.8%
	Cajalco Road to Temescal Canyon Road	115,300	1,298	1.1%
	I-15 NB On-ramp @ Temescal Canyon Road	6,000	1,298	21.6%
	I-15 SB Off-ramp @ Temescal Canyon Road	6,400	1,298	20.3%
Temescal Canyon Road	Cajalco Road to Dawson Canyon Road	3,000	0	0%
	Dawson Canyon Road to I-15 Ramps	2,600	1,298	49.9%
Cajalco Road	I-15 to Temescal Canyon Road	8,500	68	0.8%

Source: URS Corp., May 2003



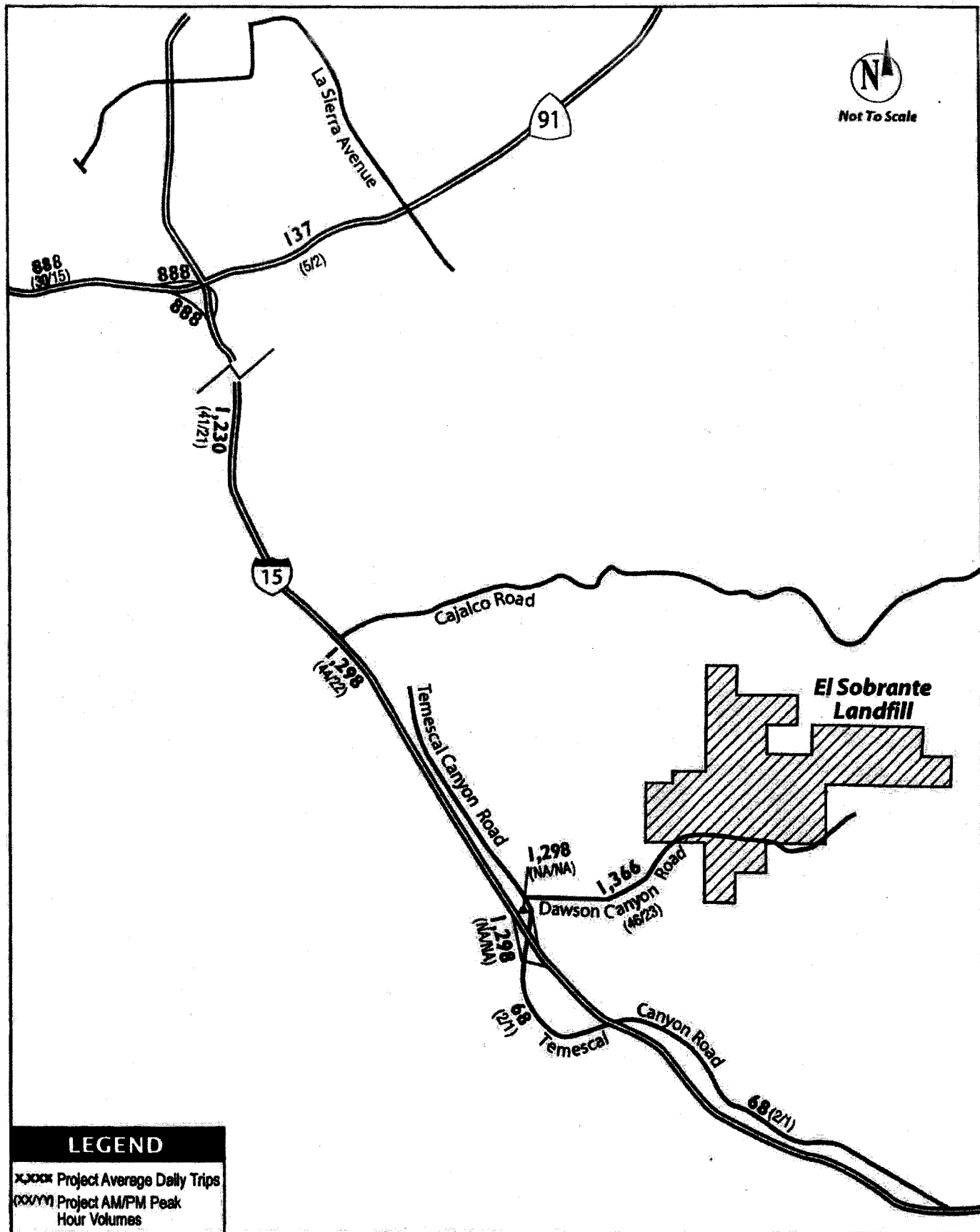
Source: URS April, 2003

**URS**

**El Sobrante Landfill  
Development Monitoring Program**

**Figure 2  
Landfill Trip Distribution**



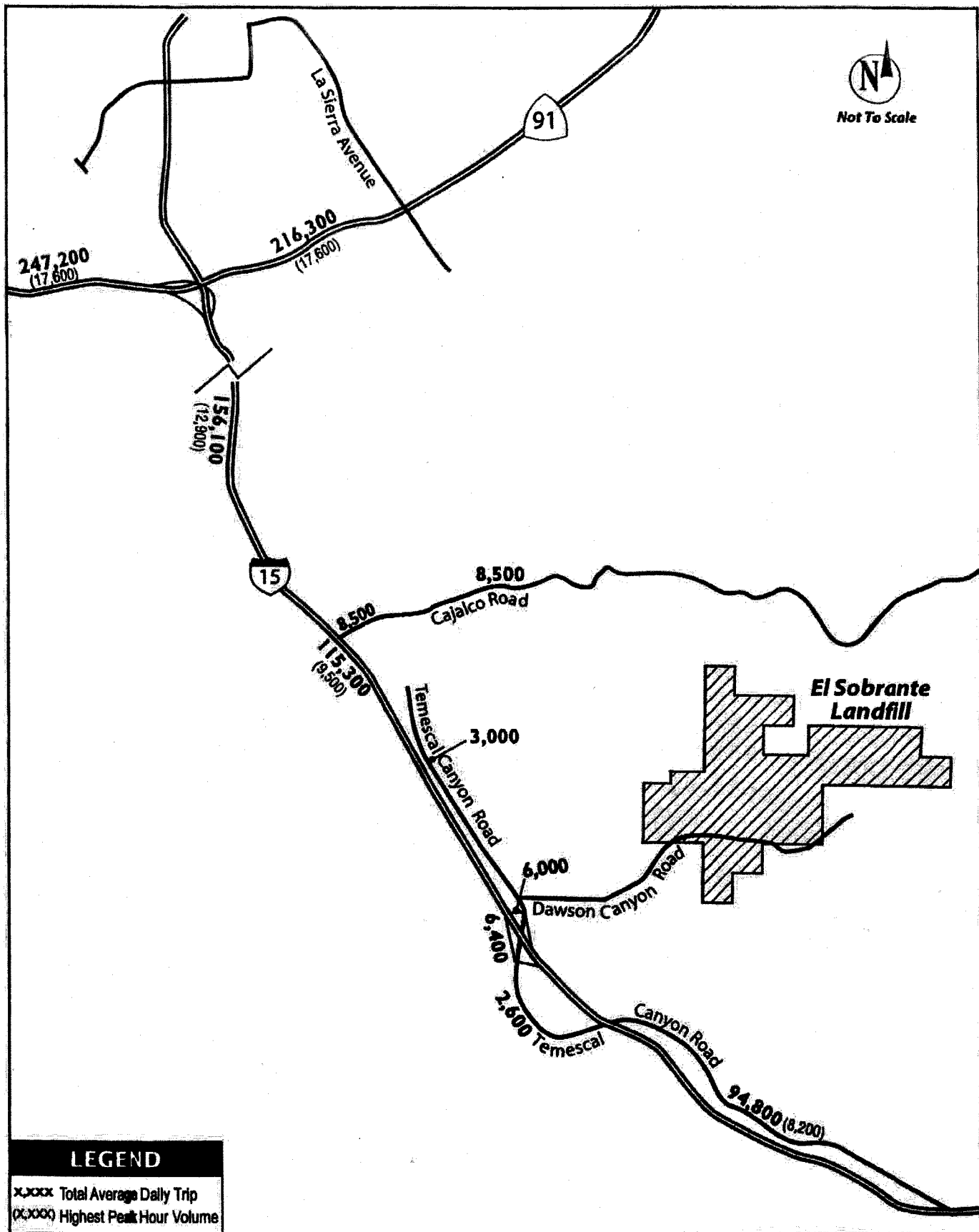


Source: URS April, 2003

**URS**

**El Sobrante Landfill**  
Development Monitoring Program

**Figure 3**  
Landfill Trip Assignment - Total & Peak Hour



Source: URS April, 2003

**URS**

**El Sobrante Landfill**  
 Development Monitoring Program

**Figure 4**  
 Existing Average Daily Traffic (ADT) Volumes

As shown in Table 2, the El Sobrante Landfill traffic generally represents a rather small proportion of total daily traffic on the adjacent roadway network. On the mainline segments of I-15 and SR-91, the El Sobrante Landfill traffic represents between 0.06% and 3.3% of total daily traffic volumes.

The freeway access ramps and adjacent roadway segments nearest to the El Sobrante Landfill experience the greatest proportion of El Sobrante Landfill traffic on the segment of Temescal Canyon Road between Dawson Canyon Road and the I-15 ramps. Approximately 50% of total daily traffic (1,298 daily El Sobrante Landfill trips) is comprised of El Sobrante Landfill traffic. Although this roadway segment is carrying a substantial volume of El Sobrante Landfill traffic, volumes on the roadway are generally low and the majority of the El Sobrante Landfill trips (approximately 90% or 1,168 trips) occur during the off-peak periods.

Table 3 displays peak hour traffic counts on nearby freeway segments and the percent of traffic represented by El Sobrante Landfill trips.

**Table 3**  
**Peak Hour Traffic Volumes**  
**Existing Conditions (~7,800 tons/day)**  
**El Sobrante Landfill Study Area Freeways**

Freeway	Segment	Highest Total Peak Hour Traffic Volume (both directions) (VPH)	El Sobrante Landfill Peak Hour Trips (both directions) (VPH)	Percent of Total Peak Hour Traffic Generated by El Sobrante Landfill
SR-91	N. Main Street to I-15	17,600	60	0.3%
	I-15 to McKinley Street	17,600	10	0.06%
I-15	SR-91 to Cajalco Road	12,900	82	0.6%
	Cajalco Road to Temescal Canyon Road	9,500	88	0.9%

Source: URS Corp., May 2003

As shown in Table 3, the traffic generated by the El Sobrante Landfill represents a very minor proportion (less than 1%) of traffic during the peak hours of the adjacent and nearby freeway segments.

Percent of Daily and Peak Hour Traffic (10,000 tons/day)

Under existing operating conditions, the El Sobrante Landfill can process a maximum of 10,000 tons of waste per day. However, due to a lower level of existing demand, the El Sobrante Landfill is currently processing approximately 7,800 tons of waste per day.

This section summarizes the potential contribution of El Sobrante Landfill traffic assuming full operations at the current maximum allowed processing level of 10,000 tons/day. This allows a consideration of potential worse case conditions under existing permitting.

The daily and peak hour traffic volumes for the El Sobrante Landfill assuming 10,000 tons of waste/day were calculated by increasing the existing average El Sobrante Landfill trip generation by a factor of 10,000/7,800, or 28%.

Table 4 displays total daily traffic (ADT) volumes on nearby roadways along with the contribution of daily trips generated by the El Sobrante Landfill, assuming operations at 10,000 tons/day. As shown in Table 4, the El Sobrante Landfill traffic would continue to represent a minor proportion of total daily traffic on the adjacent roadway network. On the mainline segments of I-15 and SR-91, the El Sobrante Landfill traffic would represent between 0.08% and 4.2% of total daily traffic volumes.

Similar to the existing conditions, the freeway access ramps and adjacent roadway segments nearest to the El Sobrante Landfill, as the primary linkage between I-15 and the El Sobrante Landfill site, would experience the greatest proportion of daily El Sobrante Landfill traffic.

It should be noted that the contribution of El Sobrante Landfill traffic at the 10,000 tons/day processing level would also entail a growth in the background traffic volumes over time as the El Sobrante Landfill nears the maximum allowed processing level. As such, the percentage of El Sobrante Landfill traffic on the adjacent roadways would likely decrease as the background traffic volumes on the adjacent roadways increases. Therefore, at the point in time when the El Sobrante Landfill reaches the 10,000 tons/day processing level, the proportion of El Sobrante Landfill traffic on the adjacent roadways would likely be less than those shown on Table 4.

**Table 4**  
**Average Daily Traffic Volumes**  
**Maximum El Sobrante Landfill Conditions (~10,000 tons/day)**  
**El Sobrante Landfill Study Area Roadways**

Roadway	Segment	Total Average Daily Traffic Volume	El Sobrante Landfill Daily Trips	Percent of Total Daily Traffic Generated by El Sobrante Landfill
SR-91	N. Main Street to I-15	247,200	1,138	0.5%
	I-15 to McKinley Street	216,300	175	0.08%
	SR-91 EB to I-15 SB Connector Ramp	57,000	1,138	2.0%
I-15	I-15 NB to SR-91 WB Connector Ramp	27,000	1,138	4.2%
	SR-91 to Cajalco Road	156,100	1,574	1.0%
	Cajalco Road to Temescal Canyon Road	115,300	1,661	1.4%
	I-15 NB On-ramp @ Temescal Canyon Road	6,000	1,661	27.7%
	I-15 SB Off-ramp @ Temescal Canyon Road	6,400	1,661	26.0%
Temescal Canyon Road	Cajalco Road to Dawson Canyon Road	3,000	0	0%
	Dawson Canyon Road to I-15 Ramps	2,600	1,661	63.9%
Cajalco Road	I-15 to Temescal Canyon Road	8,500	87	1.0%

Source: URS Corp., May 2003

Table 5 displays peak hour traffic volumes on adjacent freeway segments, along with the contribution of peak hour trip generated by the El Sobrante Landfill, assuming operations at 10,000 tons/day.

**Table 5**  
**Peak Hour Traffic Volumes**  
**Maximum Landfill Conditions (~10,000 tons/day)**  
**El Sobrante Landfill Study Area Freeways**

Freeway	Segment	Highest Total Peak Hour Traffic Volume (both directions) (VPH)	El Sobrante Landfill Peak Hour Trips (both directions) (VPH)	Percent of Total Peak Hour Traffic Generated by El Sobrante Landfill
SR-91	N. Main Street to I-15	17,600	77	0.4%
	I-15 to McKinley Street	17,600	13	0.07%
I-15	SR-91 to Cajalco Road	12,900	105	0.8%
	Cajalco Road to Temescal Canyon Road	9,500	113	1.2%

Source: URS Corp., May 2003

As shown, even with an increase in the waste processing level at the El Sobrante Landfill, the traffic generated by the El Sobrante Landfill would continue to represent a very minor proportion (less than 1.5%) of peak hour traffic on the adjacent and nearby freeway segments.

**CONCLUSION:** The current Waste Management program to minimize in and outbound transfer truck trips during peak hours is successful as demonstrated by a review of Landfill trip generation, distribution, and resulting contribution to the adjacent roadway system. If the traffic volumes, distributions, and hourly flows were to increase to the levels associated with an increase in the waste processing level (to the maximum allowable level of 10,000 tons per day), the traffic generated by the El Sobrante Landfill would continue to be minimized during peak hours.

### **3.0 Transportation Related Condition of Approval - Item 3**

*"Development of a construction traffic control plan for offsite, public roads to control construction-related traffic impacts during periodic construction of landfill cells to reduce construction related traffic impacts to local residents and businesses."*

New construction is expected to occur at the El Sobrante Landfill every 12 to 18 months. Construction traffic is typically minimal and would at a maximum represent approximately 50 additional trips. The previous sections have shown that the El Sobrante Landfill traffic represents a minor percentage of total vehicle traffic on the adjacent roadways under both existing and maximum allowed processing levels and the minor addition of construction trips could not be significant enough to change these conclusions.

In addition, construction trips typically occur during off-peak periods, and as a result would not substantially increase peak hour traffic. The El Sobrante Landfill currently contributes a relatively minor percentage of traffic to the adjacent roadways during the peak hours (approximately 7% and 3% of the El Sobrante Landfill traffic occurs during the respective AM and PM peak hours on the adjacent and nearby roadway system), the addition of construction traffic to and from the El Sobrante Landfill would represent an imperceptible change in peak hour traffic.

**CONCLUSION:** The construction traffic shall conform to the current Waste Management program to minimize in and outbound transfer truck trips during peak hours. Since construction traffic would be minimal, will occur during off-peak periods, and will not substantially increase peak hour traffic, the

addition of construction traffic to and from the El Sobrante Landfill would result in noticeable impacts. Therefore, the construction related impacts to local residents or businesses would be minimal or non-existent.

#### **4.0 Summary of Key Findings**

The following key points summarize the Development Monitoring Program:

1. Based on discussions and coordination with Caltrans District 8 and the South Coast Air Quality Management District, the El Sobrante Landfill is in compliance with and consistent with the requirements of the Regional Mobility and Air Quality Management Plans and appropriate clearance has been indicated by staff of the respective agencies.
2. The current Waste Management program to minimize in and outbound transfer truck trips during peak hours is successful as demonstrated by a review of Landfill trip generation, distribution, and resulting contribution to the adjacent roadway system. If the traffic volumes, distributions, and hourly flows were to increase to the levels associated with an increase in the waste processing level (to the maximum allowable level of 10,000 tons per day), the traffic generated by the El Sobrante Landfill would continue to be minimized during peak hours.
3. The construction traffic shall conform to the current Waste Management program to minimize in and outbound transfer truck trips during peak hours. Since construction traffic would be minimal, will occur during off-peak periods, and will not substantially increase peak hour traffic, the addition of construction traffic to and from the El Sobrante Landfill would result in <sup>no</sup> noticeable impacts. Therefore, the construction related impacts to local residents or businesses would be minimal or non-existent.

## **Appendix A**

### **Correspondence Information**

**DEPARTMENT OF TRANSPORTATION**

PLANNING AND LOCAL ASSISTANCE

DISTRICT 8

464 WEST 4<sup>TH</sup> STREET, 6<sup>TH</sup> FLOOR

SAN BERNARDINO, CA 92401-1400

PHONE (909) 383-6327

FAX (909) 383-6890

TTY (909) 388-6300

*Flex your power  
Be energy efficient*

August 4, 2003

08-Riv-15-33.466

SCH #90020076

Mr. Sam Morrissey  
Transportation Division  
URS Corporation  
1615 Murray Canyon Road, Suite 1000  
San Diego, CA 92108

Dear Mr. Morrissey:

El Sobrante Landfill Expansion Project,  
Compliance to Requirement for Development Monitoring Program

In response to your memo dated June 20, 2003 requesting our assistance in the above matter, we have researched our files in an effort to identify the specific mitigation measures recommended by Caltrans during review of the project Final Environmental Impact Report.

Unfortunately, it appears that the only reference made with regard to Mobility Plan compatibility is contained in the conditions of approval prepared by the County of Riverside Transportation Department, and outlined in their letter dated June 17, 1996.

Although our letter dated January 24, 1997 addressed to Mr. Robert Nelson; Director of the County of Riverside Waste Resources Management District acknowledges a general agreement with the County Transportation Department's comments, it does not identify the measures necessary to achieve Mobility Plan compliance. We are therefore unable to provide the specific confirmation you are seeking.

However, our letter to Mr. Nelson does confirm our agreement that implementation of other traffic related mitigation measures contained in the project environmental documents, reduce highway impacts to a "less than significant" level. The particular mitigation measures receiving Caltrans concurrence included ramp widening and traffic signal installation at the Interstate 15/Temescal Canyon Road interchange. It should be noted that these measures have since been implemented.

In the absence of specific Mobility Plan measures, and given the completion of the freeway improvements deemed necessary by Caltrans, it would be reasonable to conclude that no other comments with respect to preparation of a Development Monitoring Plan are required.



Mr. Sam Morrissey  
August 4, 2003  
Page 2

We are enclosing a copy of our January 24, 1997 letter for your files. Thank you for providing the additional information requested and for your patience in this matter. If you have other questions regarding this issue, please contact Rosa F. Clark at (909) 383-6908 for assistance.

Sincerely,



RAMAKRISHNA R. TADI, Acting Chief  
Office of Forecasting/IGR-CEQA Review  
Transportation Planning Division

cc: J. McCann, RCWMD

PAUSERS\CLARK\Clark's Work\Itr\I-15\Other\15RCWMD\_EIS\BranteLandfillExpansion\_MitCh.doc

DEPARTMENT OF TRANSPORTATION

DISTRICT 8, P.O. BOX 231  
SAN BERNARDINO, CALIFORNIA 92402  
JD (909) 383-5959



January 24, 1997

08-Riv-15-31.8  
SCH #90020076✓  
SCH #93092106

Mr. Robert Nelson  
Director  
Waste Resources Management District  
County of Riverside  
1995 Market Street  
Riverside, CA 92501

Dear Mr. Nelson:

El Sobrante Landfill Expansion

We have reviewed the following documents for the above project:

1. Final EIR: El Sobrante Landfill Expansion
2. Traffic Impact Study: El Sobrante Landfill Expansion; and,
3. County of Riverside Transportation and Land Management Agency (TLMA) letter dated June 17, 1996, RE: El Sobrante Landfill Expansion -- Transportation Related Conditions of Approval

On January 14, 1997, Mr. Cecil A. Karstensen, of my staff, and Mr. Ed Studor, of the County Transportation Department, discussed the proposed traffic improvements for the above project. Concerning this discussion and our review, we request consideration of the following comments:

- We are in agreement with the conclusions of the above-referenced traffic study, the mitigation measures listed and recommendations provided in that report on pages 95 and 96 pertaining to the following:

Interstate 15 (I-15)/Temescal Canyon Road north- and southbound on-/off-ramps

Mr. Robert Nelson  
January 24, 1997  
Page 2

- We concur with the conclusions and findings of the Final Environment Impact Report pertaining to the following:

I-15/Temescal Canyon Road for north- and southbound  
on-/off-ramps

- We concur with the Conditions of Approval for traffic improvements as outlined in the County of Riverside (TLMA) letter (see enclosed), including the requirement that the project applicant shall pay their "fair share" toward the following traffic signals:

I-15/Temescal Canyon Road for north- and southbound  
on-/off-ramps

- Considering implementation of traffic measures pertaining to the I-15/Temescal Canyon Road north- and southbound on-/off-ramps as required in the Conditions of Approval (dated June 17, 1996), we concur that traffic impacts related to the above project will be less than significant.
- The above and any additional conditions required by Riverside County Waste Resources Management District and Transportation Department may require an encroachment permit for any work necessary within the State highway right of way. The developer must obtain an encroachment permit from the Caltrans District 8 Permits Office prior to beginning work. Their address and phone number are listed below:

Office of Permits  
California Department of Transportation  
P.O. Box 231  
San Bernardino, CA 92402  
(909) 383-4536

Mr. Robert Nelson  
January 24, 1997  
Page 3

If you have any questions, please contact Cecil Karstensen at (909) 383-5922 or  
FAX (909) 383-7934.

Sincerely,

*Original signed by ROBERT G. HARVEY*

ROBERT G. HARVEY, Chief  
Office of Riverside County  
Transportation Planning

CAK:aq

Enclosure

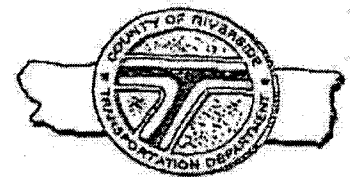
cc: Michael Chiriatti, Jr., Chief, State Clearinghouse  
Lesley Likins, Senior Planner, County of Riverside  
Sung K. Ma, Planner, County of Riverside  
Edward D. Studor, County of Riverside  
Robert C. Mason, TRC Environmental Solutions, Inc.  
JoAnn Hadfield, TRC Environmental Solutions, Inc.  
Jack Kurchian, USA Waste

bcc: FLehr  
NAthuluru  
RHelgeson



**COUNTY OF RIVERSIDE**  
**TRANSPORTATION AND**  
**LAND MANAGEMENT AGENCY**

**Transportation Department**



*David E. Barnhart*  
*Director of Transportation*

**TRANSPORTATION PLANNING AND SYSTEMS MANAGEMENT DIVISION**

June 17, 1996

Robert A. Nelson, Director  
Waste Resources Management District  
1995 Market Street  
Riverside, CA 92501

RE: El Sobrante Landfill Expansion - Transportation Related  
Conditions of Approval

Dear Mr. Nelson:

The Transportation Planning staff has reviewed the traffic study submitted by Albert Grover & Associates in support of the Environmental Impact Report (EIR) for the El Sobrante Landfill Expansion project (El Sobrante). The traffic study was prepared in accordance with County approved guidelines. The Department generally concurs with the findings of the traffic study and the traffic related impacts addressed in the study and in the EIR.

The traffic study indicates that it is possible to achieve a minimum Level of Service (LOS) of "C" for the following intersections that would be affected (some of the intersections require improvement to meet the LOS of "C"):

- Temescal Canyon Road/I-15 southbound ramps
- Temescal Canyon Road/I-15 northbound ramps
- Temescal Canyon Road/Landfill Access Road
- Temescal Canyon Road/Weirick Road
- Temescal Canyon Road/Cajalco Road
- Project Access Road/Park Canyon Drive

The County's Comprehensive General Plan Circulation Policies require a minimum LOS "C" for this project. As such, the proposed project is consistent with the General Plan policies.

El Sobrante Landfill is currently permitted to receive 4000 tons per day (TPD) of solid waste. Under the expansion project, the landfill would be allowed to receive up to 10,000 TPD of waste. The following conditions of approval incorporate the transportation

El Sobrante Landfill Expansion - Conditions  
June 17, 1996  
page -2-

related improvements to the local road system required to achieve or maintain a minimum LOS of "C", as amended this date at the Board of Supervisors hearing.

CONDITIONS OF APPROVAL

1. Upon permit approval Western Waste Industries shall immediately amend their operating plan to require all trucks hauling out of county imported waste to exclusively utilize the Temescal Canyon Road Interchange for access to the landfill site.
2. Within 1 year of start date Western Waste Industries shall pay into the Road Improvement Trust the amount \$879,000 as their "fair share" toward the following road improvements.
  - a. An additional lane in each direction on Temescal Canyon Road from I-15 Northbound on/off ramps to the El Sobrante Access Road. The structural section of the additional lanes shall satisfy a Traffic Index of 11.5. (Western Waste Industries' percent contribution for this condition is 10.25 percent)
  - b. Eight-foot paved shoulder on the west side of Temescal Canyon Road adjacent to the intersection of Temescal Canyon Road and the El Sobrante Access Road. (Western Waste Industries' percent contribution for this condition is 80 percent).
  - c. Improvements of the intersection of Temescal Canyon Road/El Sobrante Access Road to provide the following intersection geometrics and any required widening:

Westbound:	One right turn lane and one left turn lane on the El Sobrante Access Road. This improvement to be accomplished in conjunction with the improvements to the lower portion of the El Sobrante Access Road as required by Condition No. 2e below. (Western Waste Industries' percent of contribution for this condition is 80 percent.
Southbound:	None.
Northbound:	Extend existing right turn land on Temescal Canyon Road. (Western Waste

El Sobrante Landfill Expansion - Conditions

June 17, 1996

page -3-

Industries' percent contribution for this condition is 80 percent.

- d. Improve the lower portion of the El Sobrante Access Road (from the intersection of Temescal Canyon Road to the cul-de-sac) so that it will meet a Traffic Index of 11.5, and so that it complies with Standard 106-B for improved drainage protection from the 100-year, 24-hour storm, or as approved by the Director of the County Transportation Department. The improvement of the lower portion of the Access Road shall be designed based on direction of the Riverside County Flood Control District, and a maximum water depth of 9 inches across the Access Road, generally as depicted in the attached exhibit - "Proposed Conceptual Access Road Improvements." Coldwater Wash Channel improvements and rock slope protection shall continue southeasterly from the access road along the entire length of Temescal Canyon Road to the Hydro-Conduit driveway as approved by the Transportation Department. (Western Waste Industries' percent contribution for this condition is 80 percent).
- e. The applicant shall pay a Traffic Signal Mitigation Fee in accordance with Riverside County Ordinance No. 748. Said fee shall be based upon industrial/per net acre. The project net acreage is 4.5 acres. The remaining acreage is not subject to mitigation at this time.
- f. The applicant shall pay their "fair share" toward the following traffic signals (these signals are over and above the Traffic Signal Mitigation Fee payment made by the applicant pursuant to County Ordinance 748, and are not subject to credit or reimbursement):

Temescal Canyon Road (E/W) at:

- a. El Sobrante Access Road. (Western Waste Industries' percent contribution for this condition is 80 percent).
- b. I-15 Northbound on/off ramps (as approved by Caltrans). (Western Waste Industries percent contribution for this condition is 11 Percent).
- c. I-15 Southbound on/off ramps (as approved by Caltrans). (Western Waste Industries percent contribution for this condition is 9.5 percent).

El Sobrante Landfill Expansion - Conditions

June 17, 1996

page -4-

3. Within 3 months of start date Western Waste Industries shall initiate the construction of improvements between the intersections of Temescal Canyon Road/ and the Southbound and Northbound on/off ramps to provide the following intersection geometrics, including any required widening or as approved by Caltrans:

Eastbound: An additional through lane on Temescal Canyon Road.

Westbound: An additional through lane on Temescal Canyon Road , and one right turn lane at the Northbound on ramp.

Southbound: (off ramp) one left turn lane.

Northbound: (off ramp) None

In the event the County elects to coordinate these improvements with other Temescal Canyon Road improvements, the County may direct Western Waste Industries to pay the approved estimated cost of the improvements in lieu of the required construction.

4. Within 90 days following the end of the calendar year in which the total tonnage of waste landfilled at El Sobrante exceeds 1,440,000 tons, the applicant shall establish and be responsible for a Development Monitoring Program which shall include the following:

- a. Consult with and obtain clearance from Caltrans District 8 and the South Coast Air Quality Management District to assure compliance and coordination with the Regional Mobility and Air Quality Management Plans.
- b. Develop a program to minimize in and outbound transfer trucks during peak hours.
- c. A construction traffic control plan for offsite, public roads shall be developed to control construction-related traffic impacts during periodic construction of landfill cells to reduce construction related traffic impacts to local residents and businesses.

With the inclusion of the above conditions of approval, the Department finds that the roadways and intersections affected by the project will operate at a minimum LOS of "C", which is below



El Sobrante Landfill Expansion - Conditions  
June 17, 1996  
page -5-

a level of significance. If you have questions regarding the conditions of approval, please call us.

Sincerely,



Edwin D. Studor  
Transportation Planning Manager

ES:ef

attachment

cc: George Johnson, County Transportation Department  
Leslie Likens, Waste Management  
Jack Kurchian, Western Waste  
Robert Mason, Environmental Solutions

TABLE 1

**REVISED CONDITIONS OF APPROVAL  
"FAIR SHARE" CONTRIBUTION  
WESTERN WASTE INDUSTRIES  
EL SOBRANTE LANDFILL EXPANSION**

Page 1 of 2

REVISED CONDITIONS OF APPROVAL (1)	ESTIMATED COST	WWT's "FAIR SHARE"	REMARKS
• Traffic Signal Mitigation Fee (Condition No. 1)	\$11,086	\$11,086	• Based on Ordinance 748 (\$2,704 x 4.1 acres of buildings and support areas [Admin Bldg and Maintenance Facility], see attached Figures 3.12 and 3.13).
SUBTOTAL CONDITION NO. 1	\$11,086	\$11,086	
• Applicable Traffic-Related Conditions of 4,000 TPD In Place (Condition No. 2)	\$0	\$0	• Within 45 days of receipt of revised SWFP, demonstrate that the applicable traffic-related conditions of approval for the 4,000 tpd permit are in place.
SUBTOTAL CONDITION NO. 2	\$0	\$0	
• Development Mitigation Program (Condition No. 3)			
- Consult with Caltrans and SCAQMD to assure compliance with Regional Mobility Plan and Air Quality Management Plan.	\$5,000	\$5,000	• Estimated cost for consulting with Caltrans and SCAQMD.
- Develop program to minimize in and out-bound traffic during peak hours.	\$5,000	\$5,000	• Estimated cost for developing plan and consulting with County.
- Develop construction traffic control plans.	\$5,000	\$5,000	• Estimated cost for developing plan and consulting with County.
SUBTOTAL CONDITION NO. 3	\$15,000	\$15,000	
• Roadway Improvements (Condition No. 4)			
- Traffic Signals - Temescal Cyn Rd (Cond. 4a)			• Western Waste Industries to establish a financial mechanism to fund or secure its proposed "fair share" contribution of roadway improvements identified in Conditions 4a through 4c.
• Access Road	\$100,000	\$80,000	- Not part of Ordinance 748; not subject to credit/reimbursement.
• I-15 Northbound On/Off Ramps	\$140,000	\$15,400	• Based on 80/20 split between El Sobrante and Recoye (2).
• I-15 Southbound On/Off Ramps	\$140,000	\$13,300	• As approved by Caltrans. Based on El Sobrante's 11 percent contribution to ADTs (3).
	\$380,000	\$108,700	• As approved by Caltrans. Based on El Sobrante's 9.5 percent contribution to ADTs (2).
- Temescal Cyn Rd - Additional lane each direction	\$276,800	\$24,370	• Based on El Sobrante's 10.25 percent contribution to ADTs (3).
- I-15 Northbound on/off ramps to Access Road (Cond. 4b)			
	\$76,800	\$76,800	
SUBTOTAL CONDITION NO. 4	\$76,800	\$76,800	

TABLE 1

REVISED CONDITIONS OF APPROVAL  
"FAIR SHARE" CONTRIBUTION  
WESTERN WASTE INDUSTRIES  
EL SOBRANTE LANDFILL EXPANSION

Page 2 of 2

REVISED CONDITIONS OF APPROVAL (1)	ESTIMATED COST	WWTW "FAIR SHARE"	REMARKS
<ul style="list-style-type: none"> <li>- Temescal Cyn Rd Between 1-15 Southbound and Northbound Ramps (Cond. 4c)               <ul style="list-style-type: none"> <li>• Eastbound: 1 thru lane</li> <li>• Westbound: 1 thru lane; right turn lane NB On Ramp</li> <li>• Southbound Off Ramp: left thru lane</li> <li>• Northbound Off Ramp: None</li> </ul> </li> </ul>	\$17,700 \$20,300 \$13,800	\$1,680 \$2,230 \$1,310	<ul style="list-style-type: none"> <li>- Based on El Sobrante's 9.5 percent contribution to ADTs (3).</li> <li>- Based on El Sobrante's 11 percent contribution to ADTs (3).</li> <li>- Based on El Sobrante's 9.5 percent contribution to ADTs (3).</li> <li>- Not project related.</li> </ul>
<ul style="list-style-type: none"> <li>- Temescal Cyn Rd - Eagle-foot paved shoulder west side adjacent to intersection with Access Road (Cond. 4d)</li> </ul>	\$38,100	\$30,480	<ul style="list-style-type: none"> <li>- Based on 80/20 split between El Sobrante and Recyc (2).</li> </ul>
<ul style="list-style-type: none"> <li>- Temescal Cyn Rd/Access Rd (Cond. 4e)               <ul style="list-style-type: none"> <li>• Westbound (Access Road): 1 left lane; 1 right turn (4)</li> <li>• Southbound: None</li> <li>• Northbound: Extend existing right turn lane (5)</li> </ul> </li> </ul>	\$10,000	\$8,000	<ul style="list-style-type: none"> <li>- Based on 80/20 split between El Sobrante and Recyc (2).</li> <li>- No requirement.</li> <li>- Based on 80/20 split between El Sobrante and Recyc (2).</li> </ul>
<ul style="list-style-type: none"> <li>- Lower Portion of Access Road (Cond. 4f)               <ul style="list-style-type: none"> <li>• Low-water crossing improvements</li> <li>• Upgrade Temescal Wash Bridge</li> </ul> </li> </ul>	\$769,000 \$98,000	\$615,200 \$72,000	<ul style="list-style-type: none"> <li>- Based on 80/20 split between El Sobrante and Recyc (2).</li> <li>- Based on 80/20 split between El Sobrante and Recyc (2).</li> </ul>
SUBTOTAL CONDITION NO. 4	\$1,615,700	\$867,970	
TOTAL COST	\$1,641,786	\$894,056	

91-266 (6/19/96mm)

(1) Based on revised conditions of approval from County Transportation Department dated June 17, 1996. See attached figure.

(2) Assumes only El Sobrante and Recyc use landfill access road.

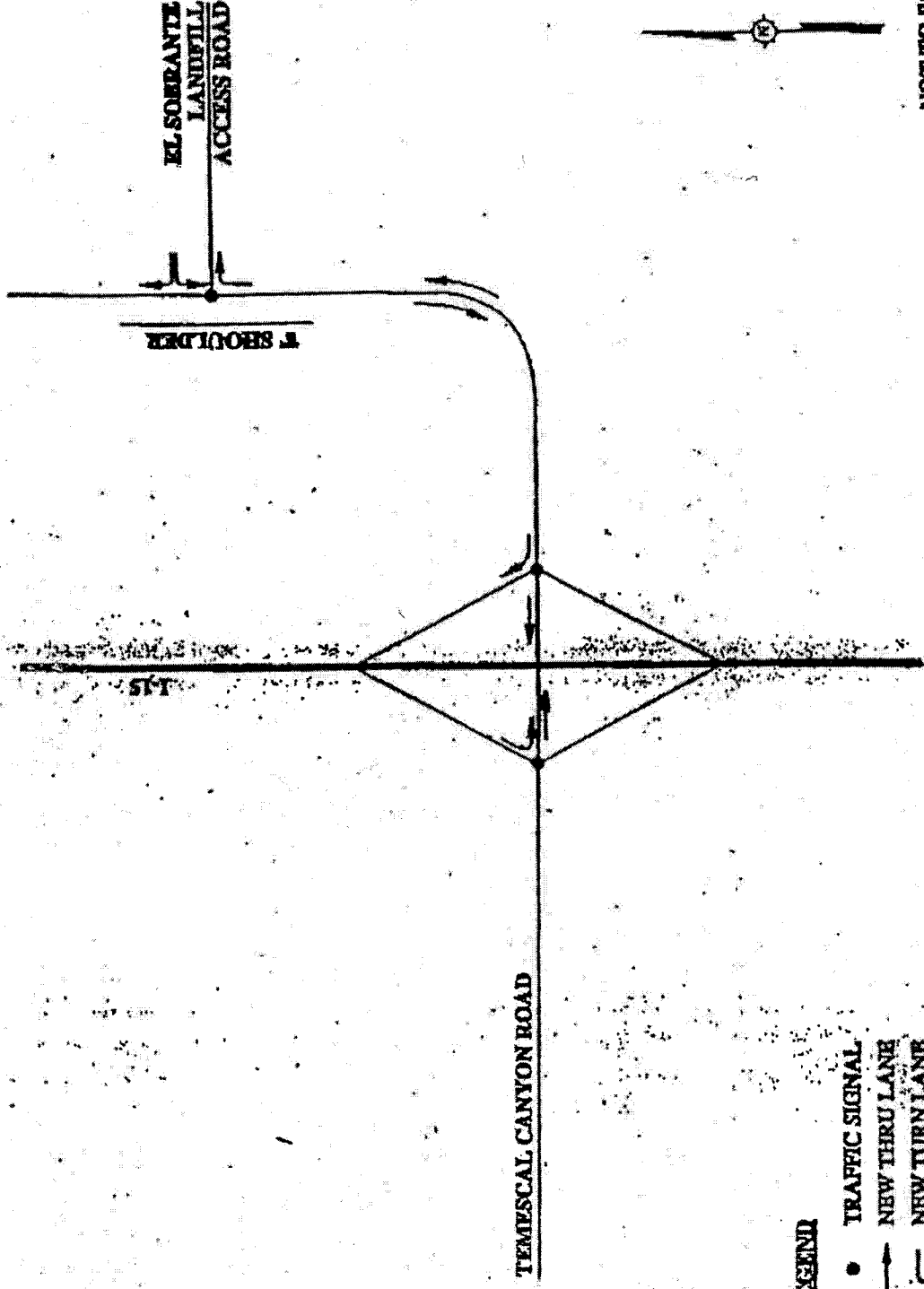
(3) Based on El Sobrante's contribution to the overall ADTs for specific road segments according to the 1994 Traffic Study.

(4) Will be accomplished at the same time as Condition 4f.

(5) Will be accomplished at the same time as Condition 4b.

EL SOBRANTE LANDFILL

ROADWAY IMPROVEMENTS



LEGEND

- TRAFFIC SIGNAL
- NEW THRU LANE
- NEW TURN LANE

NOT TO SCALE

**Appendix B**  
**6-Day Average Vehicle Counts**  
**at the El Sobrante Landfill by Vehicle Type**

LOADS BY VEHICLE TYPE PER HOUR  
DATE: Daily Averages over 6 days

No.	Vehicle Type	Hour																								Total	%	10K tons/day Total Loads
		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
01	Car or Station Wagon	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.51%	5	
02	Van, Pickup Truck or Trailer (3 Tons)	0	0	0	0	0	1	2	3	5	5	7	5	4	3	2	0	0	0	0	0	0	0	0	38	5.61%	49	
03	Truck or 2 Wheel Trailer	0	0	0	3	4	9	14	13	17	17	21	18	16	18	8	2	0	0	0	0	0	0	0	156	22.78%	200	
04	Car, Van, or Truck Pulling 2 Wheel Trailer	0	0	0	0	0	1	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7	1.00%	9	
08	10-15 Wheel Truck or Tractor Trailer	0	0	0	2	1	4	2	4	3	2	3	2	3	1	1	0	0	0	0	0	0	0	0	27	3.98%	35	
10	18 Wheel Tractor Trailer	0	0	0	2	1	2	2	2	2	2	2	1	2	1	1	0	0	0	0	0	0	0	0	18	2.61%	23	
13	Commercial Hauler (Non-compacted)	0	0	0	3	3	3	2	3	3	2	2	3	2	2	2	0	0	0	0	0	0	0	0	29	4.24%	37	
14	6 Wheel Truck (Over 2 Tons Capacity)	0	0	1	3	3	3	3	7	7	6	7	9	4	3	2	1	0	0	0	0	0	0	0	58	8.20%	72	
16	Commercial Waste Hauler (Compacted)	0	0	0	1	2	4	6	7	6	3	6	3	6	7	4	1	0	0	0	0	0	0	0	58	8.22%	72	
17	Commercial Waste Hauler (Compacted)	0	0	0	2	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	9	1.24%	11	
18	Commercial Waste Hauler (Compacted)	0	0	0	1	0	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	9	1.27%	11	
19	Transfer Trailer	1	42	15	21	18	18	22	17	19	25	24	17	13	9	5	3	3	1	2	1	0	0	0	273	40.01%	352	
29	Stack Transfer	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.32%	3	
Totals:		1	42	17	39	32	46	57	60	64	66	70	58	50	44	23	7	3	1	2	1	0	0	0	683	100%	880	

#Total Loads at 10,000 Tons/Day: 880

**Appendix C**  
**Average Daily Traffic Volumes**  
**Caltans and the County of Riverside**

MAINLINE

District	Route	County	PostMile Prefix	Post Mile	Description	Back Peak Hr	Back Peak Mo	Ahead Peak Hr	Ahead Peak Mo	AAADT
7	91 LA	LA	R	15.61	BELLFLOWER, BELLFLOWER BOULEVARD	19200	257000	18500	253000	240000
7	91 LA	LA	R	16.94	CERRITOS, JCT. RTE. 605, SAN GABRIEL RIVER FREEWAY	18800	253000	21000	289000	273000
7	91 LA	LA	R	18.09	ARTESIA, PIONEER BOULEVARD	21000	289000	20000	270000	262000
7	91 LA	LA	R	18.63	CERRITOS, NORWALK BOULEVARD	20000	270000	19800	268000	259000
7	91 LA	LA	R	19.17	CERRITOS, BLOOMFIELD AVENUE	19800	268000	17800	242000	233000
7	91 LA	LA	R	19.43	CERRITOS, ARTESIA AVENUE	17800	242000	17600	241000	231000
7	91 LA	LA	R	20.45	CERRITOS, CARMENITA AVENUE	17600	241000	16700	231000	221000
7	91 LA	LA	R	20.74	LOS ANGELES-ORANGE COUNTY LINE	16700	231000			
12	91 ORA	ORA	R	0	LOS ANGELES-ORANGE COUNTY LINE			16700	231000	221000
12	91 ORA	ORA	R	0.49	LA PALMA, ORANGETHORPE AVENUE	16700	231000	15000	224000	209000
12	91 ORA	ORA	R	0.85	BUENA PARK, VALLEY VIEW STREET	15000	224000	16300	242000	227000
12	91 ORA	ORA	R	1.84	BUENA PARK, KNOTT AVENUE	16300	242000	16500	245000	228000
12	91 ORA	ORA	R	2.62	BUENA PARK, JCT. RTE. 58, BEACH BOULEVARD	16500	245000	16300	241000	227000
12	91 ORA	ORA	R	3.64	FULLERTON, JCT. RTE. 5, SANTA ANA FREEWAY	16300	241000	14700	220000	210000
12	91 ORA	ORA	R	4.08	MILEPOST EQUATION =0.41					
12	91 ORA	ORA	R	1.23	ANAHEIM, BROOKHURST AVENUE	14700	220000	15400	229000	220000
12	91 ORA	ORA	R	2.23	ANAHEIM, EUCLID AVENUE	15400	220000	16000	238000	228000
12	91 ORA	ORA	R	3.26	FULLERTON, HARBOR BOULEVARD	16000	238000	16500	246000	236000
12	91 ORA	ORA	R	3.51	ANAHEIM, LEMON STREET/HARVARD AVENUE	16500	246000	17500	261000	250000
12	91 ORA	ORA	R	4.28	ANAHEIM, EAST STREET	17500	261000	17100	255000	244000
12	91 ORA	ORA	R	5.28	ANAHEIM, STATE COLLEGE BOULEVARD	17100	255000	16700	249000	238000
12	91 ORA	ORA	R	6.12	ANAHEIM, JCT. RTE. 57, ORANGE FREEWAY	16700	249000	17800	245000	234000
12	91 ORA	ORA	R	7.35	ANAHEIM, KRAEMER BOULEVARD/GLASSELL STREET	17800	245000	17000	235000	224000
12	91 ORA	ORA	R	8.4	ANAHEIM, TUSTIN AVENUE	17000	235000	17000	235000	224000
12	91 ORA	ORA	R	9.19	ANAHEIM, JCT. RTE. 56, SOUTH, COSTA MESA FREEWAY	17000	235000	19000	288000	284000
12	91 ORA	ORA	R	10.09	ANAHEIM, LAKEVIEW AVENUE	19000	288000	17800	281000	267000
12	91 ORA	ORA	R	11.54	ANAHEIM, JCT. RTE. 90, WEST, IMPERIAL HIGHWAY	17800	281000	17400	271000	260000
12	91 ORA	ORA	R	14.43	WEIR CANYON ROAD	17400	271000	16200	255000	242000
12	91 ORA	ORA	R	16.4	GYPSUM CANYON ROAD	16200	255000	17200	255000	248000
12	91 ORA	ORA	R	17.95	COAL CANYON ROAD	17200	255000	17200	255000	248000
12	91 ORA	ORA	R	18.91	ORANGE-RIVERSIDE COUNTY LINE, GREEN RIVER ROAD	17200	255000			
8	91 RIV	RIV	R	0	ORANGE-RIVERSIDE COUNTY LINE			17200	255000	248000
8	91 RIV	RIV	R	1.03	GREEN RIVER DRIVE	17200	255000	16500	245000	236000
8	91 RIV	RIV	R	2.08	JCT. RTE. 71 NORTH	16500	245000	18800	244000	235000
8	91 RIV	RIV	R	3.71	SERFAS CLUB DRIVE	18800	244000	16700	242000	233000
8	91 RIV	RIV	R	4.13	MILEPOST EQUATION =4.01					
8	91 RIV	RIV	R	4.16	CORONA, MAPLE STREET	16700	242000	16000	230000	222000
8	91 RIV	RIV	R	5.38	CORONA, LINCOLN AVENUE	16000	230000	17000	240000	231000
8	91 RIV	RIV	R	6.02	CORONA, WEST GRAND BOULEVARD	17000	240000	16500	233000	224000
8	91 RIV	RIV	R	6.34	CORONA, MAIN STREET	16500	233000	17600	249000	240000
8	91 RIV	RIV	R	7.45	CORONA, JCT. RTE. 15	17600	249000	17600	217000	210000
8	91 RIV	RIV	R	9.18	CORONA, MC KINLEY STREET	16500	217000	16500	202000	197000
8	91 RIV	RIV	R	10.81	RIVERSIDE, PIERCE STREET	16500	202000	14700	180000	176000
8	91 RIV	RIV	R	11.1	RIVERSIDE, MAGNOLIA AVENUE	14700	180000	14900	182000	178000
8	91 RIV	RIV	R	11.99	RIVERSIDE, LA SIERRA AVENUE	14900	182000	14900	182000	178000
8	91 RIV	RIV	R	13.04	RIVERSIDE, TYLER STREET	14800	182000	15100	184000	180000
8	91 RIV	RIV	R	14.08	RIVERSIDE, VAN BUREN STREET	15100	184000	14600	178000	174000
8	91 RIV	RIV	R	15.63	RIVERSIDE, ADAMS STREET	14600	178000	14700	180000	176000
8	91 RIV	RIV	R	16.85	RIVERSIDE, MADISON STREET	14700	180000	14300	180000	176000
8	91 RIV	RIV	R	17.82	RIVERSIDE, ARLINGTON AVENUE	14300	180000	14200	181000	177000
8	91 RIV	RIV	R	18.41	RIVERSIDE, CENTRAL AVENUE	14200	181000	13600	176000	172000



MAINLINE

District	Route	County	Post Mile Prefix	Post Mile	Description	Back Peak Hr	Peak Mo	AADT	Ahead Peak Hr	Peak Mo	AADT
8	15 RIV		R		0 SAN DIEGO RIVERSIDE COUNTY LINE						
8	15 RIV			3.44	TEMECULA, SOUTH JCT. RTE. 79	7700	109000	100000	7700	109000	100000
8	15 RIV			4.98	TEMECULA, RANCHO CALIFORNIA ROAD	10300	129000	118000	10300	129000	118000
8	15 RIV			6.82	TEMECULA, NORTH JCT. RTE. 79	11500	144000	132000	11500	144000	132000
8	15 RIV			8.74	JCT. RTE. 215 NORTH	13500	169000	155000	13500	169000	155000
8	15 RIV			9.47	MURRIETA HOT SPRINGS ROAD	7700	97000	86000	7700	97000	86000
8	15 RIV			10.59	CALIFORNIA OAKS ROAD	8200	101000	92000	8200	101000	92000
8	15 RIV			13.84	CLINTON KEITH ROAD	7800	95000	86000	7800	95000	86000
8	15 RIV			15.07	BAXTER ROAD	7700	91000	83000	7500	87000	78000
8	15 RIV			16.3	BUNDY CANYON ROAD	7300	84000	79000	7300	84000	79000
8	15 RIV			19.16	ELSINORE, RAILROAD CANYON ROAD	7500	87000	79000	7300	84000	76000
8	15 RIV			20.95	ELSINORE, MAIN STREET	7300	84000	78000	8300	92000	84000
8	15 RIV			21.79	MILEPOST EQUATION =21.81	8300	92000	84000	7800	87000	79000
8	15 RIV			22.28	ELSINORE, JCT. RTE. 74						
8	15 RIV			23.85	ELSINORE, NICHOLS ROAD	7800	87000	79000	6800	78000	71000
8	15 RIV			26.69	LAKE STREET	6800	78000	71000	6900	80000	73000
8	15 RIV			30.4	INDIAN TRAIL ROAD	7300	86000	76000	7300	86000	76000
8	15 RIV			33.39	TEMESCAL CANYON ROAD	7800	94000	86000	8200	101000	93000
8	15 RIV			35.64	WEIRICK ROAD	8200	101000	93000	9000	114000	105000
8	15 RIV			36.81	CALICO ROAD	9000	114000	105000	9500	122000	113000
8	15 RIV			37.82	EL CERRITO ROAD	9500	122000	113000	9800	128000	119000
8	15 RIV			38.69	CORONA, ONTARIO AVENUE	9800	128000	119000	10700	143000	133000
8	15 RIV			40.35	CORONA, MAGNOLIA AVENUE	10700	143000	133000	12300	164000	153000
8	15 RIV			41.5	CORONA, JCT. RTE. 81	12300	164000	153000	12900	152000	142000
8	15 RIV			42.88	NORCO, YUMA DRIVE	12800	152000	142000	13000	152000	143000
8	15 RIV			43.64	NORCO, 2ND STREET	13000	152000	143000	12300	143000	135000
8	15 RIV			45.6	NORCO, 8TH STREET	12300	143000	135000	11400	139000	132000
8	15 RIV			48.28	UMONTE AVENUE	11400	139000	132000	9800	125000	120000
8	15 RIV			51.47	JCT. RTE. 60	9800	125000	120000	14400	204000	193000
8	15 RIV			52.28	RIVERSIDE COUNTY						
8	15 SBD				0 SAN BERNARDINO COUNTY ONTARIO, JURUPA AVENUE	14400	204000	193000	14800	208000	198000
8	15 SBD			2.39	ONTARIO, JCT. RTE. 10	14800	209000	198000	13200	180000	172000
8	15 SBD			3.05	ONTARIO, FOURTH STREET	13200	180000	172000	12000	162000	156000
8	15 SBD			5.31	RANCHO CUCAMONGA, JCT. RTE. 68	12000	162000	156000	9700	130000	126000
8	15 SBD			5.97	RANCHO CUCAMONGA, MILLER AVENUE	9700	130000	126000	8700	130000	128000
8	15 SBD			6.78	RANCHO CUCAMONGA, BASE LINE						
8	15 SBD			8.09	RANCHO CUCAMONGA, HIGHLAND AVENUE	9700	130000	126000	8400	111000	107000
8	15 SBD			9.61	SUMMIT AVENUE						
8	15 SBD			12.84	SIERRA AVENUE	8500	112000	107000	7700	101000	96000
8	15 SBD			15.65	GLEN HELEN PARKWAY	7700	101000	96000	6800	89000	84000
8	15 SBD			16.37	JCT. RTE. 215 (MILEPOST EQUATION)	6800	89000	84000	6700	90000	83000
8	15 SBD		R	14.96	KENWOOD AVENUE	6700	90000	83000	9700	127000	117000
8	15 SBD			20.01	CLEGGHORN ROAD	9700	127000	117000	9700	127000	118000
8	15 SBD		R	21.37	JCT. RTE. 138	9700	127000	118000	9700	127000	118000
8	15 SBD		R	26.59	MILEPOST EQUATION =R28.43						
8	15 SBD		R	28.62	DAK HILL ROAD						
8	15 SBD		R	29.78	MILEPOST EQUATION =29.78	8100	107000	99000	7700	102000	94000
8	15 SBD		R	31.81	HESPERIA, JCT. RTE. 395 NORTH (TO INYOKERN)	7700	102000	94000	6500	87000	80000
8	15 SBD			32.32	HESPERIA, JOSHUA STREET/ PALM AVENUE	6500	87000	80000	6900	92000	84000
8	15 SBD			34	HESPERIA, PHELAN ROAD	6900	92000	84000	7100	92000	75000
8	15 SBD			37.59	VICTORVILLE, BEAR VALLEY CUTOFF (TO LUCERNE VALLEY)	7100	82000	75000	6400	73000	67000

06/07/2002

11:05:05

RAMP

CALTRANS TRAFFIC VOLUMES  
PRINT FILE FOR RAMP AADT

Page # 19

P POST	P	S DESCRIPTION	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
P MILE			ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT
023.605		NICHOLS RD, NB OFF							1000			1500
023.656		NICHOLS RD, SB ON							980			1600
024.041		NICHOLS RD, NB ON							2070			2650
024.075		NICHOLS RD, SB OFF							1630			2550
026.463		LAKE ST, NB OFF							1420			1950
026.510		LAKE ST, SB ON							1530			2200
026.912		LAKE ST, NB ON							4700			5000
026.949		LAKE ST, SB OFF							4830			5200
030.196		INDIAN TRAIL RD, NB OFF							970			1300
030.250		INDIAN TRL RD, SB ON							890			1100
030.600		NB ON FR INDIAN TRAIL							2700			4200
030.646		SB OFF TO INDIAN TRAIL							2650			4100
033.088		SB ON FR TEMESCAL CYN							2380			2050
033.104		NB OFF TO TEMESCAL CYN							1950			1750
033.425		SB OFF TO TEMESCAL CYN							5550			6400
033.466		NB ON FR TEMESCAL CYN							5150			6000
035.449		NB OFF TO WEIRICK RD							375			400
035.497		SB ON FR WEIRICK RD							380			450
035.854		SB OFF TO WEIRICK RD							3800			6000
035.871		NB ON FR WEIRICK RD							3800			6200
036.639		NB OFF TO CAJALCO RD							475			1700
036.934		NB ON FR CAJALCO RD							2000			6000
036.960		SB ON FR CAJALCO RD							400			1350
037.187		SB OFF TO CAJALCO RD							2000			5650
037.657		NBOFF TO EL CERRITO RD							880			

06/07/2002

11:05:05

CALTRANS TRAFFIC VOLUMES

PRINT FILE FOR RAMP AADT

Page # 50

RAMP

P	P	S	DESCRIPTION	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
P	MILE			ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT
006.222		EB	OFF TO MAIN SB							3000			3400
006.387		EB	OFF TO NB MAIN							3100			3100
006.520		WB	OFF TO MAIN ST							14000			14700
006.521		EB	ON FR MAIN ST							14900			15000
007.032		WB	ON FR NB 15	21400		26100	26000			27000			
007.042		EB	OFF TO RTE 15	44000						57000			
007.710		EB	ON FR NB 15	10500			11000			28000			
007.795		WB	OFF TO RTE 15	21700						30000			
009.016		EB	OFF TO MC KINLEY			18900							
009.023		WB	ON FRM MCKINLEY ST										19600
009.023		WB	ON FRM MCKINLEY ST			18700				19700			
009.029		EB	OFF TO MCKINLEY ST				19001			19500			21200
009.179		WB	OFF TO SB MCKINLEY				1501			3200			4100
009.181		EB	ON FROM SB MCKINLEY ST				1901			8100			8800
009.323		EB	ON FROM NB MCKINLEY ST				1901			3500			4100
009.361		EB	ON FM MCKINLEY ST			3700							
009.410		WB	OFF TO NB MCKINLEY ST				1501			9800			11300
010.599		WB	ON FRM PIERCE ST							12800			10500
010.606		EB	OFF TO PIERCE							9800			10100
010.995		WB	ON FRM SB MAGNOLIA							3800			9200
011.051		EB	OFF TO MAGNOLIA							2650			2600
011.193		WB	OFF TO SB MAGNOLIA							5300			6000
011.266		EB	ON FRM NB MAGNOLIA							6600			7200
011.771		EB	OFF TO LA SIERRA							9100			9800
011.868		WB	ON FRM LA SIERRA AVE							10100			10500

# MAINLINE TRUCK %

RTE	DIST	CNTY	MILE	L E G	DESCRIPTION	VEHICLE		TRUCK		TRUCK AADT		TRUCK AADT		TRUCK AADT		TRUCK AADT		EAL	YEAR
						AADT	TOTAL	AADT	TOTAL	By Axle	By Axle	By Axle	By Axle	By Axle	By Axle	By Axle	By Axle		
										2	3	4	5+	2	3	4	5+	1-WAY	VER/
																		(1000)	EST
091	12	ORA	5.258	A	ANAHEIM, STATE COLLEGE BOULEVARD	238000	20706	8.7	9732	2775	1242	6957	47	13.4	6	33.6	3179	82E	
091	12	ORA	6.119	A	ANAHEIM, JCT. RTE. 57, ORANGE FREEWAY	234000	20358	8.7	7003	3094	1629	8632	34.4	15.2	8	42.4	3747	84E	
091	12	ORA	R9.187	B	JCT. RTE. 55 SOUTH	224000	14580	6.5	8459	1238	568	4295	58.1	8.5	3.9	29.5	1975	91E	
091	12	ORA	R9.187	A	JCT. RTE. 55 SOUTH	284000	12780	4.5	6901	716	256	4908	54	5.6	2	38.4	2038	91E	
091	12	ORA	R11.54	B	PERALTA, JCT. RTE. 90 WEST	267000	13350	5	6675	734	267	5674	50	5.5	2	42.5	2298	91E	
091	12	ORA	R11.54	A	PERALTA, JCT. RTE. 90 WEST	260000	14274	5.49	5975	1106	554	6639	41.86	7.75	3.88	46.51	2683	00E	
091	08	RIV	R2.087	B	JCT. RTE. 71 NORTH	236000	14089	5.97	5898	1092	547	6553	41.86	7.75	3.88	46.51	2648	00E	
091	08	RIV	R2.087	A	JCT. RTE. 71 NORTH	235000	15299	6.51	6557	1092	546	7103	42.86	7.14	3.57	46.43	2861	00E	
091	08	RIV	6.343	B	CORONA, MAIN STREET	224000	14582	6.51	6250	1041	521	6770	42.86	7.14	3.57	46.43	2727	00E	
091	08	RIV	6.343	A	CORONA, MAIN STREET	240000	14544	6.06	6234	1038	519	6753	42.86	7.14	3.57	46.43	2720	00E	
091	08	RIV	9.18	B	MC KINLEY STREET	210000	14196	6.76	6084	1014	507	6591	42.86	7.14	3.57	46.43	2655	00E	
091	08	RIV	9.18	A	MC KINLEY STREET	197000	15149	7.69	6493	1082	541	7034	42.86	7.14	3.57	46.43	2833	00E	
091	08	RIV	11.991	B	RIVERSIDE, LA SIERRA AVENUE	178000	15094	8.48	6469	1078	539	7008	42.86	7.14	3.57	46.43	2823	00E	
091	08	RIV	14.079	B	RIVERSIDE, VAN BUREN STREET	180000	9000	5	6210	540	360	1890	69	6	4	21	972	81E	
091	08	RIV	14.079	A	RIVERSIDE, VAN BUREN STREET	174000	8700	5	6003	522	348	1827	69	6	4	21	940	81V	
091	08	RIV	19.999	B	RIVERSIDE, 14TH STREET	172000	8600	5	5934	516	344	1806	69	6	4	21	929	81E	
091	08	RIV	21.659	B	RIVERSIDE, JCT. RTE. 60, JCT. RTE. 215 NORTH, RIVERSIDE/ESCONDIDO FREEWAY INTERCHANGE	160000	8000	5	5520	480	320	1680	69	6	4	21	864	81E	



Cany

	RRX	10/23/01	TUE	1459
	RRX	11/29/99	MON	1471
	RRX	9/16/98	WED	1441
SUMNER AVE	S OF CLOVERDALE RD			
		6/3/98	WED	640
SYCAMORE CANY	ON BLV N OF COLLEGE BLVD			
		10/27/01	SAT	9869
		8/19/99	THU	6579
		4/22/98	WED	7877
		4/22/96	MON	5732
TEMESCAL CANY	ON RD N OF CAJALCO RD			
		10/28/99	THU	3723 ✓
		1/29/98	THU	2900
		6/30/97	MON	2925
		2/5/96	MON	2903
TEMESCAL CANY	ON RD S OF CONCORDIA RANC			
		10/11/01	THU	3166
		9/2/99	THU	3040
		4/2/98	THU	2267
		2/12/96	MON	2324
TEMESCAL CANY	ON RD S OF EL CERRITO RD			
		9/10/97	WED	5347
TEMESCAL CANY	ON RD N OF LAWSON RD			
		10/11/01	THU	8717
		8/31/99	TUE	7147
		1/29/98	THU	4830
		7/22/96	MON	5346
		2/5/96	MON	4862
TEMESCAL CANY	ON RD S OF MAITRI RD			
		10/11/01	THU	2598 ✓
		8/31/99	TUE	2504
		3/18/98	WED	1981
		2/5/96	MON	1513
TEMESCAL CANY	ON RD S OF WEIRICK RD			
		10/11/01	THU	2948 °
		8/31/99	TUE	2885
		2/5/96	MON	3156 ✓
TEMESCAL ST	N OF MAGNOLIA AVE			
		10/23/01	TUE	1277
		9/16/99	THU	1128

Canty

CAJALCO RD	W OF TEMESCAL CANYON R	5/13/96	MON	4572
		D		
		9/13/01	THU	8483 ✓
		8/31/99	TUE	5656
		1/30/98	FRI	3443
		6/30/97	MON	4364*
		2/5/96	MON	3754
CAJALCO RD	E OF TEMESCAL CANYON R	D		
		9/20/01	THU	8475 ✓
		8/31/99	TUE	6702
		1/30/98	FRI	4443
		6/30/97	MON	4658*
		2/5/96	MON	4441
CALHOUN ST	N OF 52ND AVE	6/5/01	TUE	911
		6/8/00	THU	2028*
		7/23/97	WED	1239
		7/14/97	MON	1375
CALHOUN ST	S OF 52ND AVE	6/5/01	TUE	1591
		12/8/99	WED	1305
		7/23/97	WED	952
CALIFORNIA AV	E S OF MARVIN HULL RD			
	RRX	6/2/97	MON	130
CALIFORNIA AV	E N OF SH-79	6/26/01	TUE	829
		9/14/99	TUE	677
		6/17/97	TUE	533
CALIFORNIA AV	E S OF STETSON AVE	6/11/01	MON	1575
		8/11/99	WED	1601
		6/2/97	MON	1835
CALISTOGA DR	N OF STARGAZER WY	10/6/98	TUE	840
CALLE CONTENT	O S OF RANCHO CALIFORNIA	RD		
		1/28/98	WED	449
CALLE CONTENT	O N OF RANCHO CALIFORNIA	RD		
		1/28/98	WED	356



## **2013 Mitigation Monitoring Program Status Report**



**El Sobrante Landfill  
2013 Mitigation Monitoring Program  
Status Report**

**Prepared By:  
USA Waste of California, Inc.  
10910 Dawson Canyon Road  
Corona, CA 92883**

**December 2014**

## **Report on Status of Mitigation Monitoring Program (MMP)** (Adopted by Board of Supervisors on December 18, 2012)

### **Aesthetics (A) Mitigation Measures**

#### **A-1**

To assure visual screening of landfill operations and facilities, a phased closure and restoration plan shall be implemented. The closure and restoration plan shall utilize Riversidian sage scrub consistent with native vegetation in nearby undisturbed areas of the Gavilan Hills to minimize visual impacts to surrounding views. (Responsible Agencies: USFWS, CDFG)

#### **Status:**

The approved Habitat Conservation Plan (HCP) negotiated with the US Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW, formerly CDFG) details a phased closure and restoration plan utilizing native species. Reports detailing compliance with the HCP, to include the Riversidian Sage Scrub (RSS) restoration plan, are prepared annually and are available upon request. In 2004, RSS restoration was completed on approximately 7 acres comprising the Phase 8 berm. Construction within the RSS Phase A Partial Final Closure area began in 2006 and was completed in early 2007. By spring of 2009, revegetation on the Phase A slopes had been successful, with excellent seed germination, native species diversity, and reaching approximately 50 percent native cover in most slope areas. In November of 2009, two (2) acres of Phase A slopes, where erosion had occurred during winter 2008, were supplemented with a native hydroseed mix. To increase plant species diversity, a 1.5-acre portion of a Phase A slope was planted with seeds of California Sagebrush and California Buckwheat in 2011. Prickly-pear cactus pads were also planted to replace dead cactus.

Closure within the RSS Phase B1 Partial Final Closure area began in 2008. Upon completion of closure in the fall of 2009, restoration of approximately 18 acres of RSS Phase B slopes occurred from October until early November 2009. Restoration activities included the creation of cactus patches, creation of rock and brush piles for reptile habitat, and the application of a hydroseed mix of native RSS.

In the fall of 2011, the same RSS hydroseed mix was reapplied to the slope of the Phase 10 berm, where a storm washout occurred in December 2010, and was applied to the Pond 4 exterior slopes and a 0.5-acre portion of a Phase 11 slope.

In 2012, 36 acres of outside slopes within Phases 3-5, 7 and 8 (RSS Phase B2 Partial Final Closure area) were closed and then hydroseeded with a RSS seed mix in the latter part of the year. Three rock outcrops and 12 large piles of branches were added to attract wildlife. Weed management and qualitative monitoring also occurred within all other restored areas on a monthly basis in 2012.

In 2013, the Biological Monitor (Mariposa Biology) for the landfill determined that the RSS restoration area on the Phase 8 berm met the RSS self-sustaining criteria per the approved HCP. As a consequence, only annual plants, and not the shrub cover, were counted. A monitoring report was prepared for the Habitat Management Committee (HMC) seeking concurrence that the Phase 8 berm restoration area meets the success criteria.

Restoration activities that occurred in 2013 included the following: 1) Hand-seeding of California Buckwheat seeds, California Sagebrush seeds, and mycorrhizal fungi in all areas of Phases A and B1, except the Phase 8 berm and those areas that were given supplemental hydroseeding in December 2012; 2) Planting of approximately 500 cactus pads within sparse areas of Phases A and B1; and, 3) Planting of approximately 3,000 cactus pads in Phase B-2 on the west- and south-facing slopes to create Cactus Wren habitat. Plant germination within

the Phase B-2 area has been good on the north slope but slow on the south slope due to low rainfall.

While considering the 2012 Annual Monitoring Report in 2013, the Citizen Oversight Committee (COC) requested that the landfill operator consider watering restoration areas as a method to accelerate plant growth. In addition, as identified in the staff report to the County Board of Supervisors for the 2012 Annual Report, County staff contracted for preparation of a non-binding technical Memorandum (see attached) to evaluate supplemental irrigation for restoration projects in southwest Riverside County. Although the Memorandum advocates for supplemental irrigation systems, pursuant to the approved HCP, irrigation is not applied, because it is preferable that seeds germinate and grow under natural conditions of wet and dry cycles, and because "increased weed growth and imbalances in soil microorganisms (most notably decreases in beneficial mycorrhizal fungi) often result" (HCP, page D-7). Non-watering serves to make restoration more self-sustaining in the long term.

In 2013, restoration sites continued to be monitored monthly and weeded as often as necessary to control weeds and promote habitat for both plant and animal species. Monitoring results are submitted to the HMC on an annual basis. If it is determined by the Biological Monitor and the HMC that less than the required vegetation cover is present, the reasons for the low cover values will be evaluated (i.e., low rainfall, adverse soil conditions, or other factors that cannot be anticipated), and recommendations for remedial measures, if feasible, will be made (HCP, D-34).

#### **A-2**

**Development shall be phased such that only approximately 20 acres are disturbed at any one time. Riversidian sage scrub restoration activities shall be similarly phased. (Responsible Agencies: RCWMD, LEA)**

##### **Status:**

No development activities took place nor was any acreage disturbed within the landfill boundary during 2013.

Landfill development, along with closure and restoration, is phased to comply with this measure and is implemented in accordance with the Implementing Agreement, dated July 2001, for the approved HCP that was entered into by USFWS, CDFW, USA Waste, and Riverside County.

#### **A-3**

**Landfill-associated facilities and structure exteriors (including rooftops) and signage shall be of a color consistent with the surrounding area. (Responsible Agencies: RCBSD)**

##### **Status:**

A 20,000-gallon above ground diesel storage tank in a neutral color consistent with the surrounding area was installed in 2013. No other facilities, structures, or signage were installed or constructed at the landfill in 2013. The landfill owner/operator will continue to implement this measure for any and all future facilities, structures, and signage.

#### **A-4**

**A plan that assures the removal or approved use of landfill-associated facilities, structures, and signage shall be approved by the CIWMB, as part of the Post-closure Plan. (Responsible Agencies: LEA, CIWMB)**

**Status:**

The final post-closure plan will include this measure. At this time, the approved HCP contains the same requirement with a caveat to leave approved structures in place, if desired, for the ongoing monitoring and maintenance of the habitat preserve.

**A-5**

**Outdoor lighting associated with the access road, administration building, and scales shall be directed toward the ground and shall be shielded. Portable lighting used for landfill operations (i.e., working face of the landfill) shall be shielded and directed toward the working area. (Responsible Agencies: LEA)**

**Status:**

All outdoor lighting, both permanent and portable, is shielded and directed toward the ground and/or working face in accordance with this mitigation measure. If the landfill operator was to receive a complaint filed at the landfill or with the LEA that temporary lighting was not directed toward the working face, the light locations and angles would be immediately adjusted. One comment was raised during a COC meeting in 2013 regarding night lighting and the location and angle of the light was redirected for the following night time operation

**A-6**

**Wherever feasible, temporary earthen or landscape berms, or other structures or measures, shall be utilized to provide visual screening of operations at the working face and to reduce potential glare impacts on surrounding residences from nighttime activities at the working face of El Sobrante. Any measures implemented for this purpose shall be subject to annual review by the Citizen Oversight Committee. (Responsible Agencies: LEA)**

**Status:**

The landfill phasing has been restructured to increase the sight distance and minimize the potential for any visual impact of filling activities on surrounding neighbors. During periods of 2013, the location of active filling could not be feasibly screened from some neighborhoods west of Interstate 15 due to the height of the landfill. However, impacts on these neighborhoods from night glare are significantly reduced due to their sight distance from the landfill, and because all outdoor lighting at the landfill, both permanent and portable, is shielded and directed toward the ground and/or working face.

**A-7**

**A plan that assures the removal of litter associated with the proposed project shall be approved by the CIWMB prior to the issuance of a SWFP.**

**USA Waste or its successor-in-interest shall be responsible for the control and cleanup of litter and debris from the landfill and/or waste-hauling vehicles along the landfill access road to its intersection with Temescal Canyon Road, and along Temescal Canyon Road from the intersection with Interstate 15 (I-15) to the intersection with Weirick Road. At a minimum, USA Waste or its successor-in-interest shall inspect and remove litter and debris from these roadways on a weekly basis and within 48 hours upon receipt of notice of complaint. (Responsible Agencies: LEA, CIWMB)**

**Status:**

Litter control and removal is addressed in the Joint Technical Document (JTD), approved by the CIWMB. As a consequence, it is closely monitored by the LEA. In 2013, USA Waste performed litter control and cleanup on these road segments in accordance with the schedule provided in the mitigation measure.

No violations or areas-of-concerns were recorded during 2013 by the LEA for the landfill or for the landfill access road. Temescal Canyon Road, like many roads in Riverside County, has been the subject of illegal disposal activity. During negotiations with the BOS regarding the First Amendment to the Second Agreement, the landfill operator agreed to increase the scope of its off-site litter removal activities to better meet the needs of the community. Condition 23.a. of the approved Conditions of Approval (Exhibit "F" of the Second Amendment) was revised to read as follows:

- 23.a. USA Waste or its successor-in-interest shall be responsible for the control and cleanup of litter and debris from the landfill and/or waste-hauling vehicles along the landfill access road to its intersection with Temescal Canyon Road, and along Temescal Canyon Road from the intersection with Interstate 15 (I-15) to the intersection with Weirick Road.

Litter control and removal is an on-going task, and during 2013, El Sobrante Landfill continued to allot a minimum of 16 man-hours per week to the clean-up of litter and debris along the landfill access road to its intersection with Temescal Canyon Road and along Temescal Canyon Road from the intersection with I-15 to the intersection with Weirick Road.

In addition, the First Amendment to the Second El Sobrante Landfill Agreement, approved on July 1, 2003, requires the following:

In order to provide more focused assistance with the problem of illegal dumping on private property, USA WASTE or its successor-in-interest will provide one roll-off bin per quarter in the Spanish Hills area and one roll-off bin per quarter in the Dawson Canyon area for private property owners in those areas. Costs associated with transportation and disposal of waste deposited in the bins will be borne by USA WASTE, with the understanding that the private property owners will bear the responsibility of depositing waste in the bins.

During 2013, the landfill operator continued to transport and dispose of trash contained within the two roll-off bins located in the Spanish Hills and Dawson Canyon areas on an "as needed" basis monitored by surrounding neighbors, or on an average of once every 45 days.

For I-15, USA Waste sponsors three sections of the interstate through the CalTrans Adopt-a-Highway program. El Sobrante will continue to clean the adopted sections of I-15 utilizing company resources.

## **Air Quality (AQ) Mitigation Measures**

### **AQ-1**

**The following activities shall occur based on SCAQMD Rule 1150.1 - Control of Gaseous Emissions from Active Landfills:**

- Landfill gas collection and thermal destruction systems shall be provided and operated.
- Landfill gas destruction system shall be constructed using best available control technology (BACT). Improved combustion technology (e.g., boiler) shall be installed at the time that the continued use of current technology flares would exceed SCAQMD standards for stationary sources. (Final EIR).
- A network of landfill gas monitoring probes shall be installed to identify potential areas of subsurface landfill gas migrations.
- The project includes a landfill gas barrier layer (i.e., 10- to 20-mil high-density polyethylene [HDPE] or polyvinyl chloride [PVC] sheeting) as part of the intermediate cover and final cover system. This gas barrier layer is not required by Subtitle D and would minimize excess air infiltration and fugitive landfill gas emissions, and would increase landfill gas collection efficiency.

- Monitoring of landfill gas concentrations at perimeter probes, gas collection system headers, landfill surface, and in ambient air downwind of the landfill shall be conducted in accordance with applicable regulations.
- Annual emissions testing of inlet and exhaust gases from the landfill gas destruction system shall be conducted to evaluate gas destruction efficiency.
- The gas collection system shall be adjusted and improved based on quarterly monitoring and annual stack testing results. (Responsible Agencies: LEA, SCAQMD)

**Status:**

The purpose of mitigation measure AQ-1 is to minimize fugitive landfill gas (LFG) emissions from the landfill, because methane produced in the landfill comprises approximately 50 percent of LFG and is a significant contributor to greenhouse gas (GHG). To minimize excess air infiltration and fugitive LFG emissions and to achieve greater gas collection efficiencies than were required by regulations in place at the time the Draft EIR (1994) and Final EIR (1996) were under review for the Expansion Project (specifically, Code of Federal Regulation [CFR], Title 40, Part 258, "Subtitle D" and SCAQMD Rule 1150.1, April 5, 1985 version), the mitigation measure was written to include a provision for a landfill gas barrier layer in the intermediate cover and final cover system, which was considered the best available control technology to reduce infiltration and emissions.

Since 1996, more stringent regulations governing the installation of LFG collection and control systems and LFG monitoring have been enacted (specifically, CFR, Title 40, Part 60, Subpart WWW ([www.ecfr.gov](http://www.ecfr.gov)); California Code of Regulations [CCR], Title 17, "AB 32" ([www.leginfo.ca.gov](http://www.leginfo.ca.gov)); CCR, Title 27; and SCAQMD Rule 1150.1, as revised 1998, 2000, and 2011 ([www.aqmd.gov](http://www.aqmd.gov)), and better extraction technologies have been implemented (i.e., better flares, better understanding of collection efficiencies, enhanced monitoring systems, and development of economically-feasible LFG-to-energy facilities). Quarterly monitoring and reporting to the SCAQMD indicates that El Sobrante is in compliance with these requirements and standards and the goal of AQ-1 without placing a landfill gas barrier in the intermediate cover and final cover system.

As allowed by Condition of Approval 5 of BOS-approved Conditions of Approval (Exhibit "F" of Second Agreement), the landfill operator may substitute specified materials, design, system or action as may be required by the project providing that such material, design, system or action complies with all applicable Federal, State, and local regulations and is approved by any Federal, State or local regulatory agency having jurisdiction and the General Manager of the Riverside County Waste Management Department (RCWMD). A third party technical report was prepared (included in appendix) that confirms the landfill's current LFG collection and control system is preferred over the installation of a LFG barrier.

**AQ-2**

**The following activities shall occur based on SCAQMD Rule 403 - Fugitive Dust:**

- Emission controls necessary to assure that dust emissions are not visible beyond the landfill property boundary shall be implemented.
- New cell construction and cell closure activities shall not occur simultaneously.
- The Rule 403 Fugitive Dust Emissions Control Plan for the landfill, approved by SCAQMD in May 1993, shall be adhered to. The plan itemized various control strategies for dust emissions from earthmoving, unpaved road travel, storage piles, vehicle track-out, and disturbed surface areas, including watering, chemical stabilizers, revegetation, and operational controls or shutdown for implementation during both normal and high wind conditions.
- Rule 403 Fugitive Dust Emissions Control Plan shall be revised on an annual basis. (Responsible Agencies: LEA, SCAQMD)

**Status:**

Dust control measures are being implemented in accordance with this mitigation measure and the landfill's SCAQMD-approved Rule 403 Fugitive Dust Control Plan. It should be noted, however, that subsequent to approval of the Expansion EIR, Rule 403 requirements changed, and the landfill operator is no longer required to revise the plan on an annual basis ([www.aqmd.gov](http://www.aqmd.gov)). As allowed by Condition of Approval 5 of BOS-approved Conditions of Approval (Exhibit "F" of Second Agreement), the Fugitive Dust Plan is updated or revised only as required by the SCAQMD.

**AQ-3**

The following mitigation measures exceed current regulatory requirements and shall be incorporated by design, construction, and operation:

- **PM<sub>10</sub> monitoring stations and an onsite meteorological station shall be installed and operated, as agreed in consultation with the SCAQMD.**
- **Where feasible, landfill roads shall be paved.**
- **Portions of paved roads abutting unpaved haul truck traffic areas shall be routinely swept and/or washed.**
- **Onsite vehicles shall be routinely maintained. (Responsible Agencies: LEA, SCAQMD)**

**Status:**

This mitigation measure is implemented on an ongoing basis. The site has installed a meteorological station and conducted PM<sub>10</sub> monitoring as part of construction activities. All paved surfaces are scheduled to be swept a minimum of once weekly, with supplemental sweepings added on a more frequent basis as dictated by weather conditions. All unpaved haul roads are watered as needed and the dust suppressant, magnesium chloride, is used periodically during the summer months. All heavy equipment is maintained on a 250 operating hour interval, and all heavy trucks (e.g., roll-off trucks) undergo annual exhaust opacity testing as required by SCAQMD.

**AQ-4**

In the event monitoring indicates that permissible levels of PM<sub>10</sub> are being exceeded, some combination of the following dust control measures shall be implemented:

- **Washing of truck wheels.**
- **Routing paved access roads away from directions that result in property boundary impacts.**
- **Curtailing specific activities (e.g., new phase construction) when conditions are unfavorable for fugitive PM<sub>10</sub> control. (Responsible Agencies: LEA, SCAQMD)**

**Status:**

This mitigation measure has not been triggered, because PM<sub>10</sub> levels are not being exceeded.

**AQ-5**

The following activities would occur based on SCAQMD Regulation XIII - New Source Review:

- **Control devices for stationary emission sources shall be provided which satisfy BACT requirements.**
- **NOx, ROG, SOx, and PM<sub>10</sub> emissions from stationary sources shall be offset according to SCAQMD requirements for essential public services. (Responsible Agencies: SCAQMD)**

**Status:**

Landfill emissions are analyzed on an annual basis to ensure that the landfill is operating within permitted threshold limits. An annual emission report is submitted to SCAQMD and the RCWMD to ensure compliance with this mitigation measure. A copy of the annual emission report is on file and available at the offices of SCAQMD and Waste Management.

**AQ-6**

**The following activity shall occur based on SCAQMD Regulation XIV - Toxics and Other Noncriteria Pollutants:**

- **Control devices for stationary emission sources shall be provided which assure that emissions of potentially carcinogenic and/or toxic compounds do not result in unacceptable health risks downwind of the landfill. (Responsible Agencies: SCAQMD)**

**Status:**

Landfill emissions from all sources are analyzed on an annual basis to ensure that the landfill is operating within permitted threshold limits. See Mitigation Measure AQ-5 above.

**AQ-7**

**Onsite vehicles shall be routinely maintained. (Responsible Agencies: SCAQMD)**

**Status:**

Routine maintenance of onsite vehicles and equipment is performed to ensure compliance with this mitigation measure.

**AQ-8**

**Heavy construction equipment shall use low sulfur fuel (<0.05 percent by weight) and shall be properly tuned and maintained to reduce emissions. (Responsible Agencies: SCAQMD)**

**Status:**

All diesel fuel used at the facility is low sulfur fuel with a sulfur content of less than 0.05% by weight, which is the only fuel available in California.

**AQ-9**

**Construction equipment shall be fitted with the most modern emission control devices. (Responsible Agencies: SCAQMD)**

**Status:**

All heavy equipment operated at the facility by USA Waste is fitted with the manufacturer's specified emission control devices for the period the equipment was manufactured. As equipment is routinely maintained, the most current available upgrades to the emission control systems are installed on the equipment in compliance with the California Air Resources Board (CARB) requirements.

**AQ-10**

**The project shall comply with SCAQMD Rule 461 which establishes requirements for vapor control from the transfer of fuel from the fuel truck to vehicles. (Responsible Agencies: SCAQMD)**



**Status:**

This mitigation measure has not been triggered, because the requirements of Rule 461 only apply if stationary or mobile gasoline fuel tanks have a capacity of over 119 gallons. The rule is not applicable to diesel storage tanks.

**AQ-11**

Prior to construction and construction/operation activities, the following premonitoring measures shall be implemented to avoid or lessen boundary concentrations of NO<sub>2</sub>:

- Normal landfill operations and cell construction/closure activities shall be preplanned to avoid potentially adverse alignments (both horizontally and vertically) during anticipated periods of meteorological conditions which could result in the greatest property boundary concentration.
- During periods when both disposal and construction activities are occurring, downwind property line monitoring of NO<sub>2</sub> shall be implemented for wind and stability conditions which could result in the highest boundary concentrations.

During construction and construction/operation activities, the following postmonitoring measures shall be implemented to avoid or lessen boundary concentrations of NO<sub>2</sub>:

- If monitoring determines that the 1-hour NO<sub>2</sub> standard (i.e., 470 µg/m<sup>3</sup>) is being approached (i.e., within 95 percent of the standard or approximately 450 µg /m<sup>3</sup>), construction or cell closure activities shall be curtailed until the appropriate tiered mitigation measures can be implemented, or until adverse meteorological conditions no longer exist.
- The waste placement and/or clay preparation areas shall be moved to a preplanned alternative working location to separate emissions from clay placement construction emissions.
- Construction procedures shall be configured such that operations requiring heavy equipment do not occur simultaneously (e.g., clay placement and protective soil placement by scrapers will not be done during periods with adverse meteorological conditions).
- Construction scheduling will be slowed to reduce daily equipment usage.
- Hours of construction with designated pieces of equipment (e.g., scrapers) shall be constrained to occur outside of peak adverse meteorological conditions.  
(Responsible Agencies: LEA, SCAQMD)

**Status:**

No construction activities occurred in 2013, however during construction activities, the landfill operator continues to implement a "CEQA Mitigation Monitoring Workplan for NO<sub>2</sub>," which was prepared by SCS Engineers to incorporate these measures and submitted to the SCAQMD on January 27, 2003 (included in appendix).

**AQ-12**

Within three years of start date [July 1, 2001], USA Waste or its successor-in-interest shall submit to the County of Riverside an evaluation of the technological and economical feasibility of using natural gas fuel or other alternative fuel in transfer trucks. The technological feasibility of the evaluation shall include review comments by the South Coast Air Quality Management District. The evaluation shall be subject to County approval. If the County finds that natural gas fuel or other alternative fuel in transfer trucks is technologically and economically feasible, USA Waste or its successor-in-interest shall develop and implement a program to phase-in transfer trucks capable of using these fuels. The program shall be subject to County approval. If the County concludes that transfer trucks capable of using alternative fuels are not technologically and economically feasible, USA Waste or its successor-in-interest shall periodically

reevaluate the feasibility of using alternative fuels in transfer trucks. Such reevaluations shall be at least every three (3) years. USA Waste or its successor-in-interest shall, however, conduct such a reevaluation anytime deemed appropriate by County. (Responsible Agencies: RCWMD)

**Status:**

The initial evaluation report was submitted with the 2004 Annual Report and is included in the appendix. The report indicated that alternatively fueled engines with sufficient power ratings for a transfer truck application were not available at that time. The insufficient power issue in a transfer truck application was not overcome in continuing studies through 2009, making it infeasible for USA Waste to implement this requirement at that time. Updated studies are being conducted and will be available in the 2014 Annual Report.

**AQ-13**

The project shall provide the required emission reductions of NO<sub>x</sub> and ROG sufficient to cause no net increase of project emissions. (Responsible Agencies: SCAQMD, RCWMD)

**Status:**

The "Annual 2014 Mitigation Monitoring Program Status Report, Air Quality Mitigation Measure AQ-13, El Sobrante Landfill, Corona, California", prepared by SCS Engineers and dated September 27, 2013, provides both a summary of the site's emission inventory for stationary, mobile, and construction sources and a summary of the emission increases, or reductions, from the various site emission sources from the baseline year of 2001 to the 2014 projected emissions (included in appendix). Based on the report's results, it is forecast that there will be an emission reduction of 661.9 lbs/day for NO<sub>x</sub> and 8.8 lbs/day for ROG. These reductions are achieved by use of an ultra-low NO<sub>x</sub> flare and the use of transfer trucks in place of packer trucks. No emission offsets are required for 2014, and the project is in compliance with this mitigation measure.

**AQ-14**

USA Waste shall amend its Policies and Procedures Manual at the landfill to require that heavy construction and operating equipment at the landfill shall not idle for longer than 15 minutes. (Responsible Agencies: RCWMD)

**Status:**

Site Policies and Procedures have been revised to enforce the "no idle longer than 15 minutes" mitigation measure (included in appendix). To support compliance with this requirement, the landfill operator chose to install exterior indicator lights beginning in 2008 to show machine idle time-outs. At the end of 2012, a total of 9 pieces of equipment had been installed with exterior lights; 1 of 2 loaders, all 3 tippers, 3 of 4 compactors, and 2 of 3 dozers. The remaining dozer was replaced in 2013 with a new unit incorporating a factory auto-idle-shutdown system. Idle auto shut-down systems will not be installed on any remaining equipment due to their lack of adaptability and/or low use, but on occasions when this equipment is in use, the landfill operator will continue to enforce the "no idle longer than 15 minutes" mitigation measure.

**Biological Resources (B) Mitigation Measures**

**B-1**

Development shall be phased so that the area to be disturbed shall be minimized. Restoration of previously disturbed areas shall be performed in accordance with the Multiple Species Habitat Conservation Plan for the El Sobrante Landfill and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB, RCWMD)

**Status:**

Phased development, closure and restoration are being performed in accordance with the Implementing Agreement, dated July 2001, for the approved El Sobrante Landfill HCP that was entered into by USFWS, CDFW, USA Waste, and Riverside County. New cell development excavation continues to be minimized as much as operationally possible and monitored by biological consultants to ensure that appropriate preserve/excavated ratios are maintained. During 2003, the expansion phases were redesigned to facilitate expansion and soil stockpiling activities. A minor modification request was formally submitted to USFWS and CDFW in May 2004 to re-phase the grading plan, increasing the number of phases from 15 to 17.

In 2004, RSS restoration was completed on approximately 7 acres comprising the Phase 8 berm. Construction within the RSS Phase A Partial Final Closure area began in 2006 and was completed in early 2007. By spring of 2009, revegetation on the Phase A slopes had been successful, with excellent seed germination, native species diversity, and reaching approximately 50 percent native cover in most slope areas. In November of 2009, two (2) acres of Phase A slopes, where erosion had occurred during winter 2008, were supplemented with a native hydroseed mix. To increase plant species diversity, a 1.5-acre portion of a Phase A slope was planted with seeds of California Sagebrush and California Buckwheat in 2011. Prickly-pear cactus pads were also planted to replace dead cactus.

Closure within the RSS Phase B1 Partial Final Closure area began in 2008. Upon completion of closure in the fall of 2009, restoration of approximately 18 acres of RSS Phase B slopes occurred from October until early November 2009. Restoration activities included the creation of cactus patches, creation of rock and brush piles for reptile habitat, and the application of a hydroseed mix of native RSS.

In the fall of 2011, the same RSS hydroseed mix was reapplied to the slope of the Phase 10 berm, where a storm washout occurred in December 2010, and was applied to a 0.5-acre portion of a Phase 11 slope.

In 2012, 36 acres of outside slopes within Phases 3-5, 7 and 8 (RSS Phase B2 Partial Final Closure area) were closed and then hydroseeded with a RSS seed mix in the latter part of the year. Large rock outcrops and brush piles were added to attract wildlife. While no other areas of the landfill have been closed and restored since 2012, 3,000 cactus pads were planted in Phase B2 in 2013, and restoration sites continued to be monitored monthly and weeded as often as necessary to control weeds and promote habitat for both plant and animal species. In addition the Biological Monitor (Mariposa Biology) for the landfill determined that the RSS restoration area on the Phase 8 berm met the RSS self-sustaining criteria per the approved HCP. A monitoring report was prepared for the Habitat Management Committee (HMC) seeking concurrence that the Phase 8 berm restoration area meets the success criteria.

**B-2**

**Areas within the landfill limits of disturbance shall be restored with Riversidian sage scrub in accordance with the Multiple Species Habitat Conservation Plan for the El Sobrante Landfill and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB, RCWMD)**

**Status:**

Refer to "Status" under Mitigation Measure B-1.

**B-3**

**Dudleya salvaging and restoration shall be performed in accordance with the Multiple Species Habitat Conservation Plan for the El Sobrante Landfill and its Implementing**

**Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB, RCWMD)**

**Status:**

Dudleya salvaging and restoration is being performed by the Habitat Manager (Mariposa Biology), in accordance with the Dudleya Restoration Plan, prepared pursuant to the approved HCP. The goal of the HCP is to replace impacted Dudleya at a 1:1 ratio through salvage, propagation, and translocation, while at the same time controlling non-native plant species within the 15-acre Dudleya Restoration Area that was established in 2004. Through 2009, a total of 15,210 plants had been salvaged from landfill phases prior to grading disturbance. Of the 15,210 plants salvaged, 7,760 plants survived to be planted within 67 test plots located in the Dudleya Restoration Area. Another 6,942 Dudleya plants were grown from seed and planted in the Dudleya Restoration Area. The survival rate of the 14,702 plants that were transplanted through 2009 in the test plots has been low due to factors such as herbivory and drought, decreasing from 318 plants in 2012 to 140 plants in 2013 after a second year of drought, which indicates that plants, while dying off, are not reproducing in the test plots. In December 2012, 7 rock outcrops were seeded with Many-stemmed Dudleya on rock outcrops that supported Dudleya lanceolata in the North and East Preserves to increase the number of Dudleya plants onsite for mitigation purposes. While this seeding did not produce any Many-stemmed Dudleya plants, it is intended that this practice will still be pursued in the future during normal rainfall years. To prevent further loss of plants in the restoration area after repeated drought years, adaptive management measures were implemented in 2013. Measures included the strategic placement of rocks to provide protection of the plants and the installation of temporary irrigation lines to water approximately 17 of the more successful test plots or test plots that can be watered without watering any natural rock outcrops. Watering to replace lack of rainwater began in November 2013.

**B-4**

Prior to disturbance to wetland/riparian areas, a wetland compensation and mitigation plan shall be developed in consultation with the ACOE, if a 404 Permit is required, the CDFG, pursuant to Section 1603 of the California Fish and Game Code, the RWQCB, pursuant to 401 Water Quality requirements and/or policies to protect wetlands, and the USFWS, if consultation is triggered pursuant to Section 7 of the Endangered Species Act. Mitigation of riparian habitats shall be targeted at a 3:1 ratio with compensation of 6.36 acres. Target mitigation of an additional 1.28 acres of riparian herb vegetation shall be at a 1:1 ratio. Final determination of mitigation ratios shall be made subsequent to onsite evaluation by the ACOE, CDFG, RWQCB, and/or USFWS and shall not be unreasonable or arbitrary. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB, RCWMD)

**Status:**

From 2002, when construction of the landfill expansion project began, through the end of 2013, it has been the understanding of the landfill owner/operator that this mitigation measure has not been triggered for any grading or construction related to the landfill and would not be triggered until the final phase of landfill development, Phase 15 (now Phase 17).

**B-5**

**Activities to mitigate the disturbance to wetlands may include, but are not limited to:**

- Identification and assessment of sites and specific riparian mitigation measures along Temescal Wash.
- Enhancement of degraded areas within existing channels.
- Weed removal to improve existing riparian habitat.
- Potential purchase of offsite riparian habitat. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB, RCWMD)

**Status:**

Any wetland compensation plan developed in the future as a result of implementing Mitigation Measure B-4 will incorporate measures such as those noted in Mitigation Measure B-5.

**B-6**

The purchase of offsite riparian/wetland habitat shall be incorporated into the mitigation plan in the event that the ACOE Section 404 permit and CDFG Section 1603 agreement process conclude that onsite enhancement and offsite mitigation along Temescal Wash could not provide sufficient compensation for disturbance to onsite riparian habitat. If this mitigation were implemented, surveys shall be conducted in coordination with USFWS and CDFG to identify offsite riparian habitat that would be suitable for purchase as mitigation for onsite habitat disturbance. Considerations shall include, but not be limited to:

- Proximity to landfill site.
- Similarity of adjacent habitat.
- Management plans.
- Comparability.
- Sustainability.
- Cost. (Responsible Agencies: USFWS, CDFG, ACOE)

**Status:**

Any wetland compensation plan developed in the future as a result of implementing Mitigation Measure B-4 will be developed in negotiation with the resource agencies.

**B-7**

Wetland/riparian habitat mitigation shall be implemented in accordance with all permits, approvals, and/or agreements as may be required by ACOE, CDFG, RWQCB, and/or USFWS. (Responsible Agencies: USFWS, CDFG, ACOE, RWQCB)

**Status:**

Wetland/riparian habitat mitigation will be implemented in accordance with an approved plan and upon issuance of all approvals and/or permits from these resource agencies.

**B-8**

Landfill personnel shall be instructed as to the requirement for and importance of restoration of completed areas of the site. (Responsible Agencies: USFWS, CDFG)

**Status:**

Worker education for El Sobrante Landfill employees and contractor employees was conducted in 2013 by El Sobrante supervisory staff as needed. This is an ongoing requirement. Restored and undisturbed habitat is also closely monitored by the Habitat Manager to ensure that impacts from landfill activity do not occur.

**B-9**

Approximately 406 acres of undisturbed open space, upon which a Declaration of Conservation Covenants and Restrictions has been recorded in favor of CDFG and USFWS, shall be maintained and managed for the benefit of Covered Species, pursuant to federal and state incidental take permits and the *Multiple Species Habitat Conservation Plan for the El Sobrante Landfill* and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: RCWMD)

**Status:**

A restrictive covenant was placed over the approximately 406 acres of Undisturbed Open Space on the landfill property in favor of USFWS and CDFG. A Declaration of Conservation Covenants and Restrictions was recorded on August 7, 2002 (Instrument No. 434614). Another 292 acres were conveyed to the County in 2002, subject to a conservation easement granted in favor of the CDFG.

**B-10**

Pursuant to Section 5 of the Agreement, USA Waste or its successor-in-interest shall pay the County a per ton charge for the deposit of Non-County waste at El Sobrante Landfill, \$1.50 of which shall be utilized for multi-species habitat acquisition and management, including planning and research activities, as provided in Section 10.7 of the Agreement and as approved by the Board of Supervisors on September 1, 1998. Monies to be utilized for multi-species purposes shall be deposited in a trust fund administered by the Executive Officer of the County. (Responsible Agencies: RCWMD)

**Status:**

For calendar year 2013, approximately \$1,914,771 was collected from out-of-county waste imports and conveyed to the Executive Office for MSHCP funding (as based on 1,276,514 tons of out-of-County waste in 2013 at \$1.50/ton). No portion of the out-of-County fee that is allocated for multi-species habitat acquisition and management is utilized to fund the El Sobrante Landfill HCP. The County maintains entire discretion over the trust fund, which is currently being utilized to fund a major portion of the Western Riverside County Multiple Species Habitat Conservation Plan. USA Waste (or its successors-in-interest) is entirely responsible for funding and carrying out its obligations under the approved HCP for the El Sobrante Landfill.

**B-11**

In the unlikely event that out-of-County waste ceases to be disposed of at El Sobrante, use of the 60 million tons of air space currently allocated for out-of-County waste shall include the requirement for payment of \$1.00 per ton for multispecies habitat acquisition and management. (Responsible Agencies: RCWMD)

**Status:**

The circumstances cited in this measure have not occurred.

**B-12**

Lighting at the working face shall be downcast and shielded to minimize reflection, and shall be directed inward toward the landfill. (Responsible Agencies: RCWMD)

**Status:**

All outdoor lighting, both permanent and portable, is shielded and directed toward the ground and/or working face in accordance with this mitigation measure. If the landfill operator was to receive a complaint filed at the landfill or with the LEA that temporary lighting was not directed toward the working face, the light locations and angles would be immediately adjusted. One comment was raised during a COC meeting in 2013 regarding night lighting and the location and angle of the light was redirected for the following night time operation

**B-13**

A predator monitoring and control plan shall be implemented in accordance with the *Multiple Species Habitat Conservation Plan for the El Sobrante Landfill* and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: USFWS, CDFG)

**Status:**

Wildlife control measures that include the following have been incorporated in the approved HCP and are being implemented by the Habitat Manager in accordance with the Implementing Agreement:

- Cowbird trapping to avoid parasitism during the breeding season of the California Gnatcatcher.
- Monitoring for the occurrence of Argentine ants and fire ants, and implementation of control measures that are based on methods prescribed by County and State agencies and approved by the Management Committee. Implementation of the measures must be consistent with the terms of the incidental take permits.
- Monitoring for the presence of domestic pets and feral cats, and implementation of trapping or other appropriate actions to limit the effects on these animals on Covered Species in Conserved Habitat and in undisturbed habitat in the Landfill Area.

In 2008 and 2009, the number of cowbirds trapped remained significantly lower than previous years. As a result, the Habitat Management Committee (HMC) for the El Sobrante HCP mutually agreed in September 2009 to reduce cowbird trapping from every year to every other year, starting in 2012. The last cowbird trapping program was conducted by TeraCor Resource Management during the California Gnatcatcher's Spring nesting season from March through June of 2012. A total of 360 brown-headed cowbirds were caught in 4 maintained traps during this period. There was no observed evidence of parasitism of Gnatcatcher nests, and no cowbirds were detected in or near Gnatcatcher habitat areas. The cowbirds that were present were part of a mixed blackbird flock that winters at the landfill and feeds on the landfill. In 2013, no cowbird trapping was conducted.

Other predator control measures implemented in 2013 included the continued monitoring for the occurrence of Argentine ants and fire ants, and the extermination of rats infesting the office area by a professional exterminator.

**B-14**

Brush clearing and habitat removal in each phase of landfill expansion will not be allowed to occur between February 1 and August 15, pursuant to the *Multiple Species Habitat Conservation Plan for the El Sobrante Landfill* and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto. (Responsible Agencies: USFWS, CDFG)

**Status:**

In 2013, pre-impact surveys were not required, because no activities associated with brush clearing and habitat removal occurred at the landfill site. A total of 17 HCP-Covered Species were observed and mapped during monthly monitoring. There were incidental sightings of nocturnal mammals, but no trapping was performed. Mapping focused on the California Gnatcatcher and Bell's Sage Sparrow in 2013.

**B-15**

When the landfill expansion is complete (i.e., after closure of all phases and at the end of the postclosure monitoring maintenance period [currently a minimum of 30 years]), including all restoration activities in accordance with the *Multiple Species Habitat Conservation Plan for the El Sobrante Landfill* and its Implementing Agreement, both dated July 2001, and any approved modifications or amendments thereto, the area of onsite disturbance (approximately 645 acres) shall be kept in permanent conservation through a conservation easement in favor of the CDFG. In the event that CDFG revokes its acceptance of the conservations easement, the land shall be placed into conservation with the County, or other County-designated entity, such as Western Riverside County

**Regional Conservation Authority as approved by the US Fish and Wildlife Service and the El Sobrante habitat management committee. (Responsible Agencies: RCWMD)**

***Status:***

As noted, this mitigation measure will not be triggered until after the post-closure period of approximately 30 years beyond closure of all phases of the landfill expansion project.

**B-16**

**USA Waste or its successor-in-interest shall continue to include the County in all aspects of future permitting processes involving USFWS, pursuant to Section 7 of the Endangered Species Act, CDFG, pursuant to Section 1603 of the California Fish and Game Code, ACOE 404 permitting, and RWQCB, pursuant to 401 Water Quality requirements and/or policies to protect wetlands. (Responsible Agencies: RCWMD)**

***Status:***

As party to the Implementing Agreement for the approved HCP, the County of Riverside will be included in all aspects of future permitting processes involving USFWS, CDFW, ACOE, and/or RWQCB. No such permitting processes took place in 2013.

**Cultural Resources (C) Mitigation Measures**

**C-1**

**Prior to grading, a Society of Professional Archaeologists (SOPA)-certified archaeologist(s) shall be retained, at the expense of the project, to provide surface collection, mapping, and test excavations for identified archaeological sites. If the sites are determined to be important, the resources within these sites shall be either preserved or a data recovery excavation shall be conducted. (Responsible Agencies: RCPD)**

***Status:***

No pre-impact archaeological surveys were conducted in 2013, because no new landfill grading was performed in 2013. The last excavation occurred in 2011 in Phases 9B, 10, and 11, for which pre-impact archaeological surveys were conducted for Phases 8 and 9 by SOPA-certified archeologists with RECON in 2003. As shown in the original Cultural Reports completed for the Expansion EIR, no archaeological sites or resources were identified in Phase 10 and 11. Due to the lack of any evidence of any archaeological resources, RECON did not recommend any further archaeological work within these areas, and no data was recorded with the local data repository.

**C-2**

**In the event that additional archaeological sites are uncovered during initial grading, work shall be redirected and an archaeologist shall be retained at the expense of the project, to evaluate the importance of the site and, if necessary, shall develop and implement an appropriate data recovery program. The archaeologist shall be allowed to redirect grading in the area of exposed resources until inspection, evaluation, and recovery activities are completed. (Responsible Agencies: RCPD)**

***Status:***

No archaeological sites have been uncovered during any grading or excavation work in current phases. There was no evidence for a subsurface component.



### **C-3**

**Routine road or stormwater facilities, maintenance or other land-altering activities in the vicinity of sites shall be monitored by a SOPA-certified archaeologist to prevent inadvertent disturbance or loss of important resources. (Responsible Agencies: RCPD)**

#### **Status:**

Pre-impact archaeological surveys have been conducted by SOPA-certified archaeologists in order to identify previously recorded resources and to identify new resources in expansion areas prior to any disturbance activities. As noted under "Status" for Mitigation Measure C-1, no resources have been identified in currently active landfill phases.

### **C-4**

**The status of the sites shall be monitored on a semi-yearly basis to assure that incidental disturbance or recreational collection of resources has not occurred. (Responsible Agencies: RCPD)**

#### **Status:**

While semi-yearly monitoring of recorded sites within the landfill property has not occurred, based on the 2003 archaeological report prepared by RECON in 2003, there is no evidence of archaeological resources within the active landfill phases. However, Archaeological monitoring will be performed on a semi-annual basis, with a status report submitted in the 2014 MMRP.

### **C-5**

**Archaeological materials recovered during surface collections, subsurface excavations, and monitoring shall be curated in perpetuity at a regional repository approved by the County. Expenses for curation shall be borne by the project. (Responsible Agencies: RCPD)**

#### **Status:**

No archaeological materials have been identified or recovered in the current expansion phases. El Sobrante Landfill will comply with this mitigation measure if triggered.

### **C-6**

**While the archaeological sites that will be affected by the proposed project are not expected to include human remains or burial artifacts, should such items be discovered during subsurface testing or data recovery, or if such items are discovered at unknown sites during construction or operation of the proposed action, project-related earthmoving activities shall be redirected away from the area. A SOPA-certified archaeologist shall consult with the County and representatives of local Native American groups regarding removal and re-interment. (Responsible Agencies: RCPD)**

#### **Status:**

No human remains or burial artifacts have been recovered during subsurface testing or during grading. Therefore, this mitigation measure has not been triggered. However, should human remains or burial artifacts be discovered, proper protocol procedures will be followed.

### **C-7**

**The approved archaeological mitigation measures shall be affixed to all copies of the project grading plans. (Responsible Agencies: RCBSD)**

**Status:**

The approved archaeological mitigation measures will continue to be affixed to all future copies of project grading plans in accordance with this mitigation measure.

**Geology, Soils and Seismicity (G) Mitigation Measures**

**G-1**

**The landfill and associated structures shall be designed and constructed to withstand the expected ground motions and potential effects of seismic ground shaking. (Responsible Agencies: RCBSD, LEA, RWQCB, CIWMB)**

**Status:**

All cell designs are engineered based on seismic stability analyses and subject to review and approval of the RWQCB. Likewise, all building plans must comply with all applicable building standards and are submitted to Riverside County for review and permitting.

**G-2**

**Final exterior waste fill slopes shall not be steeper than 1.75:1 with a minimum of one 15-foot wide bench for every 50-feet of vertical height. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

All final exterior waste fill slopes are a more conservative 2.5:1 with benches every 50 vertical feet. Interim slopes are constructed at 3:1 per RWQCB guidelines.

**G-3**

**A slope or foundation stability report shall be prepared by a registered civil engineer or certified engineering geologist. The report must indicate at least a 1.5 factor of safety for the critical slope under dynamic conditions, or appropriate factor of safety in accordance with applicable regulations. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

All stability analyses are included in the Joint Technical Document (JTD) reviewed and approved by the RWQCB. The JTD, revised March 2009, incorporated an updated seismic stability analysis of the landfill's liner system.

**G-4**

**In lieu of achieving a 1.5 factor of safety under dynamic conditions, a more rigorous analytical method that provides a quantified estimate of the magnitude of movement may be employed. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

All stability critical structures within the footprint of the landfill are designed to the 1.5 factor of safety.

**G-5**

**Significant slopes (including cut, fill, and waste prism slopes greater than 20 feet high and steeper than 3:1) shall be designed to comply with RWQCB and CIWMB requirements for the identified maximum probable earthquake peak acceleration. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

All cut, fill, and waste slopes are designed by an engineering firm to comply with regulatory requirements.

**G-6**

**RWQCB and CIWMB requirements shall be complied with, and the final cover surface slopes shall be limited to 3:1, based on seismic considerations, with intermediate fill stage heights limited to 70 feet, with 15-foot wide benches to improve stability, unless subsequent analyses verify the acceptability of steeper slopes or greater fill heights. Under no circumstance, however, shall the final exterior waste fill slope be steeper than 1.75:1 (see G-2 above). (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

This mitigation measure is implemented as it is stated.

**G-7**

**Slope buttresses shall be provided, if necessary, to increase slope stability and reduce deformations. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

The need for a slope buttress or berm is based on an approved landfill cell design and corresponding slope stability analysis. No new landfill cells were designed in 2013. The construction of a perimeter stability berm at the eastern limit of Phase 10 in 2010-11 was the last time this measure was implemented.

**G-8**

**Parameters developed by geosynthetic and geotechnical testing shall be included in the analysis of liner systems on side slopes. Residual strength values (i.e., after shearing) shall be used, unless control of peak strengths can be demonstrated. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

Compliance with this mitigation measure is documented in the Construction Quality Assurance As-Built Reports for each specific landfill phase that is constructed.

**G-9**

**A post-earthquake inspection plan shall be submitted to the RWQCB and CIWMB, for approval which provides for detailed site inspection after an earthquake of magnitude (M) 5.0 or greater within 25 miles of the site to determine the integrity of landfill structures and systems. The plan shall identify appropriate measures which may be initiated to correct earthquake-related damage. Also, a routine inspection plan shall be developed and implemented by a registered certified engineer to examine slope conditions. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

A post-earthquake and routine inspection plan was submitted to the RWQCB and CIWMB in 2008 and incorporated in the approved JTD, revised March 2009. The plan has been designed to include integrity inspections of structures, slopes and the landfill's integrated systems following an earthquake. In 2013, there were no earthquakes that triggered implementation of this mitigation measure. However, El Sobrante Landfill staff currently inspects slopes and structures for maintenance issues including signs of settlement and fissures on a weekly basis.

#### **G-10**

**If geotechnical investigations reveal the need for blasting for a specific landfill phase, a blasting study shall be conducted in compliance with County requirements. If such a study is necessary, it shall be conducted by a licensed engineer and submitted to the County Engineering Geologist for approval. (Responsible Agencies: RCPD)**

##### ***Status:***

No blasting occurred at the landfill site in 2013. The last blasting occurred in 2011 when geotechnical investigation revealed the need for minor blasting to occur as part of cell development of the subdrain system for the leachate collection and removal system (LCRS) in Phases 9B/10. El Sobrante complied with this mitigation measure at that time by submitting approved design plans for the LCRS to the County Engineering Geologist, who with concurrence from the Riverside County Waste Management Department, determined that a blasting study was not necessary.

#### **G-11**

**If isolated saturated bedrock conditions are encountered in cut slopes, appropriate drainage systems shall be installed. These systems could consist of weep systems, subdrain systems, or the flattening of excavated cut slopes to improve slope stability. (Responsible Agencies: LEA, RWQCB, CIWMB)**

##### ***Status:***

Subdrain systems were installed in Phase 8 when these conditions were encountered. During the construction of cell 9A, this subdrain was extended. In 2010, the stability berm in Phase 10 was constructed with canyon subdrains. In 2011, subdrain systems were installed during cell liner construction on approximately 26.4 acres within Phases 9B and 10. This measure will continue to be implemented at the El Sobrante Landfill during cell construction when these conditions are encountered and will continue to be in compliance with this mitigation measure.

#### **G-12**

**Landfill liners shall be placed over the side slopes, and surface water runoff control systems (e.g., V-ditches at the top of slopes) shall be constructed to prevent uncontrolled flow down the face of the slopes. (Responsible Agencies: LEA, RWQCB, CIWMB)**

##### ***Status:***

El Sobrante has constructed and continuously maintains a surface drainage network system to prevent erosion over the slopes of the landfill, which consists of v-ditches, check dams, sand bags, and silt fences.

#### **G-13**

**Structural fills shall be built above ground water and compacted in place to a specific high relative density. (Responsible Agencies: LEA, RWQCB, CIWMB)**

##### ***Status:***

A canyon subdrain system was installed in 2010 beneath the Phase 10 stability berm constructed during 2010 and 2011.

#### **G-14**

**Expansive index testing shall be performed to verify the suitability of native soils for fill materials. If testing indicates a potential for high expansiveness in the soil, such soils**

shall be either treated (e.g., mixed with non-expansive soils) or removed. (Responsible Agencies: LEA, RWQCB, CIWMB)

**Status:**

All fill materials have been tested prior to fill placement and documented in a Construction Quality Assurance As-Built Report submitted to the regulatory agencies.

**G-15**

**Blasting shall be conducted in compliance with local building code requirements to prevent damage to structures and new construction from shear waves generated during blasting. (Responsible Agencies: RCPD)**

**Status:**

No blasting occurred in 2013. This measure will be implemented at the El Sobrante Landfill when blasting is required for cell development.

**G-16**

**Only state-licensed blasters shall be used to design, supervise, and detonate explosives on the site. (Responsible Agencies: RCPD)**

**Status:**

See G-15.

**G-17**

**Seismic monitoring of each blast shall be conducted by an independent, qualified consultant. (Responsible Agencies: RCPD)**

**Status:**

See G-15.

**G-18**

**There shall be no onsite storage of explosives. Explosives shall be transported to the site by the licensed blaster on an as-needed basis. (Responsible Agencies: RCPD)**

**Status:**

Explosives are not stored on the site of the landfill.

**G-19**

**USA Waste shall inform the Riverside County Sheriff's Department (Sheriff's Dept.) and the Riverside County Fire Department (Fire Dept.) prior to blasting. (Responsible Agencies: RCPD)**

**Status:**

See G-15.

**G-20**

**USA Waste shall notify neighbors within 1,000 feet of potential blasting areas prior to a blasting episode. (Responsible Agencies: RCPD)**

**Status:**

See G-15.

#### **G-21**

A record of each blast shall be retained for at least three years and shall be submitted to the County Building and Safety Department as requested by the Building and Safety Director. (Responsible Agencies: RCBSD)

**Status:**

See G-15.

#### **G-22**

Preblast inspections shall be made by a civil engineer licensed by the State of California of residences and facilities existing at the time of landfill permit approval and located within 1,000 feet of potential blasting areas. (Responsible Agencies: RCPD)

**Status:**

See G-15.

#### **G-23**

A letter containing a general description of the blasting operations and precautions, including the blast-warning whistle signals that are required by the State of California Construction Safety orders, shall be sent to residents within a one-half mile radius of the landfill operations by USA Waste in accordance with applicable regulations. (Responsible Agencies: RCPD)

**Status:**

See G-15.

#### **G-24**

Blasting complaints, if any, shall be recorded by USA Waste as to complainant, address, data, time, nature of the complaint, name of the person receiving the complaint, and the complaint investigation conducted. Complaint records shall be made available to the County Engineering Geologist, Planning Department, and Building and Safety Department. (Responsible Agencies: RCPD, RCBSD, LEA)

**Status:**

See G-15.

### **Land Use and Land Use Plans (L) Mitigation Measures**

#### **L-1**

The development of El Sobrante Landfill Expansion shall be in accordance with the mandatory requirements of all applicable County ordinances and shall conform substantially with the project description in the EIR (State Clearinghouse No. 90020076), as filed in the office of the RCWMD. (Responsible Agencies: RCWMD, RCPD)

**Status:**

While there have been changes over time to conceptual grades based on updated seismic stability analysis, the El Sobrante Landfill continues to be developed in overall accordance with the Expansion Project first approved by the BOS in 1998 and with its SWFP and corresponding JTD, last revised in 2009. There have also been changes over time to the conceptual limits of grading for the landfill expansion project, both onsite and offsite. In 2011, Pond 4 was relocated to primarily disturbed land purchased by USA Waste outside the original landfill boundary. In conformance with the Expansion Project, the development of this ancillary facility and all future

offsite grading will not exceed the approximately 11 acres of offsite grading assessed in the EIR. The relocation of Pond 4 resulted in a substantial reduction of impacts to RSS, a sensitive plant species, when compared to RSS impacts at the original (undisturbed) location. In addition, the relocation allowed for continued preservation of rock outcrops in the area of the original location, which serve as important habitat for sensitive plants and animals. The original location of Pond 4 will be conserved and managed as part of the El Sobrante Landfill Preserve.

#### **L-2**

**Prior to any offsite grading, USA Waste or its successor-in-interest shall obtain and record appropriate offsite easements. (Responsible Agencies: RCWMD)**

##### **Status:**

Offsite grading, requiring offsite easements, was not conducted in 2013.

#### **L-3**

**A Citizen Oversight Committee shall be formed by the Board of Supervisors upon approval of the project. The Citizen Oversight Committee shall be composed of a total of five (5) members, whose term of service will be established upon formation of the committee. Three (3) of the five (5) members will be appointed by the Supervisor of the district in which the landfill is located. Of these three (3), two (2) members must reside within a three (3) mile radius of the landfill property. One (1) member shall be a representative from a corporate operation within a three (3) mile radius of the landfill property. The remaining two (2) members will be appointed by the entire Board of Supervisors and shall be chosen at large to represent the affected communities of interest. (Responsible Agencies: County Board of Supervisors)**

##### **Status:**

The Citizen Oversight Committee (COC) was formed by the BOS in 2003 and meets throughout the year as needed to discuss issues related to the use of the Mitigation Trust, illegal dumping and programs, and landfill operations.

#### **L-4**

**The Citizen Oversight Committee shall meet at least once annually to review the Annual Status Reports that will be submitted by an Administrative Review Committee which will include all reports and data that will be provided by USA Waste or its successor-in-interest and shall submit written comments on the project to the Board of Supervisors as they deem necessary. (Responsible Agencies: County Board of Supervisors)**

##### **Status:**

The COC met on October 23, 2013, November 20, 2013, and December 11, 2013 to review the 2012 El Sobrante Landfill Annual Report.

### **Noise (N) Mitigation Measures**

#### **N-1**

**Excavation and liner construction of new landfill cells shall be limited to the hours of 7:00 a.m. to 10:00 p.m., Monday through Saturday, with the following restrictions:**

- a) The conveyor belt system shall not be located less than 295 feet from occupied residences; and,
- b) Excavation and liner construction of new cells within 10 feet of the top of slope shall be limited to the hours of 7:00 a.m. to 6:00 p.m., Monday through Saturday.  
(Responsible Agencies: LEA)

**Status:**

All activities involving excavation and liner construction of new landfill cells, including use of the conveyor belt, were completed in 2012. There was no construction activity in 2013.

**N-2**

Landfill equipment working on the outside slopes of the landfill shall be limited to the hours of 8:00 a.m. to 5:00 p.m. (Responsible Agencies: LEA)

**Status:**

In compliance with this mitigation measure, El Sobrante Landfill limits its hours when working on outside slopes with landfill equipment.

**N-3**

Construction equipment shall use industrial-grade mufflers to reduce noise emission. (Responsible Agencies: LEA)

**Status:**

Only construction equipment with industrial-grade mufflers to reduce noise emission will be utilized at the landfill.

**N-4**

Blasting shall be postponed during temperature inversions and unfavorable wind conditions (wind blowing toward residences). (Responsible Agencies: RCPD)

**Status:**

No blasting was conducted in 2013.

**N-5**

Drilling and blasting shall be conducted between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, and will not occur on federal, state, and local holidays. (Responsible Agencies: RCPD)

**Status:**

No drilling or blasting was conducted in 2013.

**N-6**

Acoustic blankets shall be used around drilling operations to reduce potential drilling noise. (Responsible Agencies: RCPD)

**Status:**

This mitigation measure requires that acoustic blankets be used when drilling associated with blasting occurs. Since blasting did not occur in 2013, this mitigation measure was not triggered.

**N-7**

Wherever feasible, temporary earthen or landscape berms, or other structures or measures, shall be utilized to reduce potential noise impacts on surrounding homeowners from nighttime activities at the working face of El Sobrante. Any measures implemented for this purpose shall be subject to annual review by the Citizen Oversight Committee. (Responsible Agencies: LEA)



**Status:**

The landfill phasing has been restructured to increase the distance and minimize the potential for any audible impact of filling activities on surrounding neighbors. During periods of 2013, the location of active filling could not be feasibly screened from some neighborhoods west of Interstate 15 due to the height of the landfill. However, impacts on these neighborhoods from noise is significantly reduced due to their distance from the landfill. According to the Supplemental EIR (certified by BOS in 2009) and the Addendum to the Final EIR (considered by BOS in 2012), no significant impacts relating to the landfill's nighttime activities were identified.

**Paleontological Resources (P) Mitigation Measures**

**P-1**

A qualified paleontologist shall be retained, at the expense of the project, to monitor ongoing grading or other extensive activities in the Silverado Canyon and Lake Mathews formations. The monitoring program shall reflect the County's intent to research, recover, and preserve significant paleontological resources. (Responsible Agencies: RCPD)

**Status:**

El Sobrante Landfill has maintained compliance with this mitigation measure since the 1998 approval of the Expansion Project by the Riverside County BOS by retaining a qualified paleontologist to monitor any excavation activities within the Silverado Canyon or Lake Mathews formations. No excavations in these formations were conducted in 2013.

**P-2**

In the event that significant paleontological resources are uncovered during excavation, earthmoving and/or grading, work shall be redirected from the area until an appropriate data recovery program can be developed and implemented. (Responsible Agencies: RCPD)

**Status:**

No excavation, earthmoving and/or grading work was performed in 2013.

**P-3**

Recovered fossils shall be cleaned, cataloged, and identified to the lowest taxon possible. A report containing monitoring results, including an itemized list of fossils, shall be submitted to the County. A copy shall accompany the fossils to an appropriate repository. (Responsible Agencies: RCPD)

**Status:**

Since no significant paleontological resources have been uncovered, this mitigation measure has not been triggered.

**P-4**

Collected fossils shall be curated at a public institution with an educational/research interest in the material. The expenses shall be borne by the project. (Responsible Agencies: RCPD)

**Status:**

Since no significant paleontological resources have been uncovered, this mitigation measure has not been triggered.

**P-5**

**The approved paleontological mitigation measures shall be affixed to all copies of the project grading plans. (Responsible Agencies: RCBSD)**

***Status:***

The approved paleontological mitigation measures will continue to be affixed to all future copies of project grading plans in accordance with this mitigation measure.

**Traffic and Circulation (T) Mitigation Measures**

**T-1**

**Out-of-County waste from Los Angeles County, Orange County, San Bernardino County, and San Diego County shall be transported to El Sobrante by transfer trucks. (Responsible Agencies: RCWMD, LEA)**

***Status:***

El Sobrante Landfill has maintained compliance with this mitigation measure with the cooperation of the Riverside County Waste Management Department, who monitors and provides waste origin data. USA Waste's contracts for out of County waste include a requirement to comply with all applicable conditions of the Second Agreement. All contracted out-of-County waste was delivered by transfer trucks or equivalent trucks in 2013. The RCWMD scale house attendants have the authority to reject any deliveries not in compliance with this Mitigation Measure. The RCWMD scale house attendants did not report any violations of this Condition of Approval to USA Waste in 2013. Minor amounts of non-contracted waste from public customers or small commercial haulers may enter from time to time, as allowed by the RCWMD scale attendants.

**T-2**

**Transportation of out-of-County waste from areas other than Los Angeles County, Orange County, San Bernardino County, and San Diego County shall not be permitted without additional environmental review and approval. (Responsible Agencies: RCWMD, LEA)**

***Status:***

USA Waste has not contracted for the receipt of waste from counties other than the ones listed in this Condition of Approval. As the operator of the landfill scale house, RCWMD allows out of County waste to enter the landfill and is the entity responsible for jurisdictional reporting. In conversations with Riverside County staff, it is the understanding of USA Waste that it is the policy of Riverside County to allow incidental volumes of waste from any jurisdiction to be disposed of at a County facility to avoid or minimize illegal dumping.

**T-3**

**Transfer trucks hauling waste from out-of-County to El Sobrante that use State Route (SR) 91 shall travel to and from the landfill during off-peak hours for SR 91. (Responsible Agencies: RCWMD, RCTD)**

***Status:***

It is not feasible to guarantee that transfer trucks will never use SR 91 during peak hours, especially when traffic conditions can cause unexpected delays (i.e., accidents, breakdowns, lane closures, weather-related incidents, construction, etc.) Regardless, USA Waste has implemented measures to ensure that significant impacts from out-of-county transfer truck operations during peak hours on the SR 91 do not occur. This includes implementing 24-hour operations and notification to company and independent transfer truck operators to utilize off-

peak hours (see appendix for sample notification letter). Furthermore, extensive residential growth has occurred since the expansion EIR was prepared, leading to greater traffic congestion on both SR 91 and Interstate 15 (I-15). As a direct consequence, transfer truck operators have been forced to adjust their travel to avoid peak commute times as a cost-saving measure.

To quantitatively address Measure T-3 for 2013, peak hour waste deliveries originating from the Carson, South Gate and Central Los Angeles transfer stations were evaluated. While transfer trucks delivering waste from these transfer stations have the potential to use SR91 due to their location, the exact route taken is not known, and transfer truck drivers, both WMI and independent, are aware of the peak hour restrictions.

The data shown in Table 1 demonstrates that the amount of out of county transfer truck waste deliveries during the peak hours in 2013 has decreased compared to 2012. The 5.7 daily average peak hour deliveries in 2013 represented less than one percent of daily waste deliveries (avg. of 594 daily trips). For the 2013 Annual Report, it is not possible to determine the route taken, that is, one cannot definitively state that these trucks traveled along SR91; however, beginning with the 2014 Annual Report, data from WMI's "geo-fence" (a GPS tracking tool), will be available and provide clarity regarding the routes of WMI/USA Waste's transfer truck fleet, which accounts for approximately 60% of the transfer trucks utilizing the El Sobrante Landfill. In addition, WMI will continue to provide new independent transfer truck operators notification regarding the peak hour restrictions via direct correspondence, as well as provide contractual obligations/restrictions for new waste delivery contracts.

**Table 1**

	<b>2012</b>	<b>2013</b>
<b>AM Peak 7:30-8:30</b>	<b>7.2 Trucks</b>	<b>5.3 Trucks</b>
<b>PM Peak 4:30-5:30</b>	<b>0.5 Trucks</b>	<b>0.4 Trucks</b>
<b>Total</b>	<b>7.7 Trucks</b>	<b>5.7 Trucks</b>

#### **T-4**

**Vehicles delivering waste from out-of-County to be disposed at El Sobrante shall utilize on all trips (both inbound and outbound) only that portion of Temescal Canyon Road between its intersection with 1-15 and the landfill access road, except in the event of a closure of the on- and/or offramps at Temescal Canyon Road and 1-15. (Responsible Agencies: RCWMD, RCTD)**

#### **Status:**

El Sobrante Landfill requires all transfer trucks to utilize the designated route for deliveries of waste. USA Waste notified all out-of-county and in-county transfers stations that the designated route was I-15 to Temescal Canyon Road, then north on Temescal Canyon Road to Dawson Canyon Road. A sign has been installed at the intersection of Dawson Canyon Road and Temescal Canyon Road to clearly indicate to drivers leaving the landfill that no right turn is allowed and to indicate the landfill operator's commitment to enforce this restriction. When a driver is observed not using the designated route, the management of the trucking company is notified of the violation, and a request is made to correct the behavior. The El Sobrante staff tracks violations, with repeated violations by a driver resulting in the driver being banned from using the El Sobrante facility. In 2013, no violations were noted.

#### **T-5**

Except for vehicles collecting waste in the immediate vicinity of El Sobrante, USA Waste's or successor's-in-interest collection vehicles delivering waste from in-County to be disposed at El Sobrante shall utilize only that portion of Temescal Canyon Road between its intersection with 1-15 and the landfill access road for all trips (both inbound and outbound), except in the event of a closure of the on-and/or off-ramps at Temescal Canyon Road and I-15. (Responsible Agencies: RCWMD, RCTD)

#### **Status:**

The landfill operator has implemented this mitigation measure similarly to Mitigation Measure T-4. A sign has been installed at the intersection of Dawson Canyon Road and Temescal Canyon Road to clearly indicate to drivers leaving the landfill that no right turn is allowed and to indicate the landfill operator's commitment to enforce this restriction. When a driver is observed not using the designated route, WMI hauling operations are notified of the violation and a request is made to correct the behavior. The El Sobrante staff tracks violations, with repeat violations by a driver resulting in the driver being banned from using the El Sobrante facility. No violations were noted for local haulers in 2013.

### **Public Services and Utilities (U) Mitigation Measures**

#### **U-1**

Access roads/streets shall be wide enough to accommodate movement and parking without hindering the flow of traffic. Roadway modifications shall be designed to provide smooth and orderly traffic flow and shall be well lighted. (Responsible Agencies: RCTD)

#### **Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

#### **U-2**

Warning or caution signs shall be placed on Temescal Canyon Road and the El Sobrante access road to indicate the presence of slow-moving traffic/trucks. (Responsible Agencies: RCTD)

#### **Status:**

El Sobrante Landfill has placed multiple speed limit and caution signs at strategic points along the access route to the landfill to indicate the presence of slow-moving traffic in compliance with this mitigation measure.

#### **U-3**

Upon assignment of a numbered street address by the County, the project entrance shall be clearly marked with address numbers. (Responsible Agencies: RCTD)

#### **Status:**

El Sobrante Landfill is in compliance with this mitigation measure. The landfill entrance is well marked by many signs and monumentation. Address numbers are now posted on the mailbox and are installed on the facade of the administrative office(s).

#### **U-4**

Buildings shall be constructed with fire retardant roofing material as approved by the County Fire Department. (Responsible Agencies: RCBSD)

**Status:**

No new building applications were submitted in 2013. All new building applications for permanent structures will be routed through the Fire Department as required by the standard building permit process and this mitigation measure.

**U-5**

**Water mains and fire hydrants providing required fire flows shall be constructed subject to approval by the County Fire Department. (Responsible Agencies: RCFD)**

**Status:**

No new water service applications were submitted in 2013. All new water mains and fire hydrants will be routed through the Fire Department as required.

**U-6**

**Prior to approval of any development plan for lands adjacent to open space areas, a fire protection/revegetation management plan shall be submitted to the Riverside County Fire Department for review and comment. (Responsible Agencies: RCFD)**

**Status:**

El Sobrante Landfill developed and submitted a fire management plan to the Fire Department in 2003. This plan is implemented pursuant to El Sobrante HCP and Implementing Agreement and monitored by the Habitat Manager. Construction of two additional water storage tanks (140K gallon and 40K gallon) and pump upgrades were completed in 2007 to increase the water supply at El Sobrante for potential fire mitigation. The Fire Department has received a dedicated hook-up to each of the new tanks.

**U-7**

**Landfill equipment operators, waste transfer vehicle drivers, and landfill personnel assigned to nighttime operations shall have appropriate training for night operation of heavy equipment. (Responsible Agencies: LEA)**

**Status:**

El Sobrante Landfill equipment operators assigned to night operations receive weekly training on safety within the landfill, inclusive of maintaining proper lighting while operating in other than daylight conditions. All operator training is documented, with records maintained on site.

**U-8**

**Portable lights shall be used at the working face to provide a safe working environment during nighttime operations. (Responsible Agencies: LEA)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**U-9**

**The landfill access road and onsite roads to the working face shall be equipped with reflectors, reflective cones, reflective barriers and signs. (Responsible Agencies: LEA)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**U-10**

**Public access to the landfill shall be restricted to the hours of 6:00 a.m. to 6:00 p.m. (Responsible Agencies: LEA)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**U-11**

**Installation of low flow toilets, faucets, and showers. (Responsible Agencies: RCBSD)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**U-12**

**Wastewater shall go to the Lee Lake Treatment Facility, which makes water available for reuse. (Responsible Agencies: RCWMD, RCEHA)**

**Status:**

The active landfill requires potable, non-potable or reclaimed water, and wastewater handling in its operations. Potable water to the active landfill is currently provided by the City of Corona, non-potable or reclaimed water is provided by the Lake Elsinore Water District, and wastewater generated at the landfill is currently handled onsite, with gray water from restroom facilities routed into an onsite septic system approved by Riverside County and leachate and condensate collected for dust control purposes via a LCRS, pursuant to approvals from the RWQCB.

In order for wastewater from the landfill to go to the Lee Lake Treatment Facility to ensure that the landfill does not exceed its onsite capacity and allow for its reuse, as well as to consolidate services under one purveyor, the landfill property had to be annexed into the service area of the Lee Lake Water District (LLWD), which is the only purveyor able to meet the entire needs of the landfill for not only wastewater collection, treatment, and reuse/disposal, but also for potable and non-potable water. Applications for an annexation and Sphere of Influence (SOI) amendment were filed with the Riverside County Local Agency Formation Commission (LAFCO) in late summer 2010. On March 24, 2011, the LAFCO Board approved the annexation and SOI amendment. LAFCO's Notice of Results, including signed resolutions, were filed with and recorded by the State Board of Equalization in May and June of 2011, finalizing the decision.

As of 2013, LLWD has not started construction of non-potable reservoir/supply or wastewater lines.

**Water Resources (W) Mitigation Measures**

**W-1**

**Drainage structures, such as the perimeter drainage channels, sedimentation basins, leachate evaporation ponds, stormwater retention basins, and collection pipes and ditches, shall be inspected and maintained on a regular basis. (Responsible Agencies: RCFCB, RWQCB, LEA)**

**Status:**

At a minimum, El Sobrante Landfill supervisors inspect and maintain all drainage structures (including ditches, sedimentation basins/storm water retention basins and drainage piping) within the site on a monthly basis. Routine maintenance and cleaning of drainage structures was completed in 2013 with no unusual incidents or issues. This task is part of the supervisors' regular responsibility and serves to facilitate compliance with this mitigation measure.

## **W-2**

**Regular monitoring (and possibly testing) of perimeter drainage channels and retention ponds shall be completed to assure that discharged stormwater does not contain contaminants from the landfill. (Responsible Agencies: RCFCD, RWQCB)**

### **Status:**

El Sobrante Landfill employs a dedicated environmental engineer and retains consulting specialists to provide testing and monitoring of all drainage components within the landfill as required by State and Local regulatory agencies. There were no qualifying sampling events during 2013 per the requirements contained in the Industrial General Permit for Storm Water Discharges (Water Quality Order No. 97-03-DWQ) so no analytical data is available for this period per the 2013 annual storm water report (see FY13/14 Analytical Report in appendix).

## **W-3**

**A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared. It shall include a Spill Prevention and Response Plan and a monitoring plan. The facility shall implement "best management practices" as required by NPDES. (Responsible Agencies: RWQCB)**

### **Status:**

El Sobrante Landfill is in compliance with this mitigation measure. The SWPPP was first prepared December 7, 2001, updated November 29, 2010, and updated again on April 20, 2012. Table 1 in the latest SWPPP includes a list of "best management practices" (BMPs) used at the El Sobrante Landfill (see appendix).

## **W-4**

**Leachate shall be collected by the leachate collection and removal system (LCRS) installed at the base of each landfill cell. Such leachate shall be sampled regularly and, if necessary, treated prior to use for dust control on lined areas of the landfill. (Responsible Agencies: LEA, RWQCB, CIWMB)**

### **Status:**

El Sobrante Landfill has received approval from the RWQCB to utilize leachate collected via the LCRS for dust control on lined portions of the landfill based upon testing results, as directed by the RWQCB staff. LCRS information is reported annually in the fall and winter semi-annual groundwater report to satisfy the requirements of the RWQCB, as specified in the landfill's Waste Discharge Requirements (WDR), dated July 20, 2001. According to the Fall 2013-Winter 2014 Semi-Annual Groundwater Monitoring Report and Annual Reporting Requirements, prepared by SCS Engineers and dated April 28, 2014, the LCRS recovered leachate from 4 LCRS locations in the landfill. From April 2013 to March 2014, a total of 216,642 gallons of leachate were collected and used for dust control. The leachate control systems are inspected weekly, and annual leachate samples were collected on October 17, 2013. The use of leachate, as approved by the RWQCB, as the responsible agency, is in compliance with this mitigation measure.

## **W-5**

**Stormwater runoff that falls on the active working face of the landfill shall be diverted to a collection sump and reused for dust control on lined areas of the landfill. The sump for stormwater runoff from the active working face shall be designed to hold the runoff from the 100-year, 24-hour storm. (Responsible Agencies: LEA, RWQCB, CIWMB)**

### **Status:**

El Sobrante Landfill is in compliance with this mitigation measure. A berm is constructed at the toe of the active face to collect contact water that may come into contact with refuse and

prevent co-mingling with storm water. This is done prior to the rainy season every year and maintained throughout the rainy season. This condition rarely occurs due the predominately dry conditions at El Sobrante.

**W-6**

**Drainage improvements shall be designed and constructed to provide all-weather access to the landfill. (Responsible Agencies: RCTD, RCFCD)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**W-7**

**To reduce the quantity of water used, the following measures shall be implemented:**

- **Low-flow plumbing fixtures shall be installed for onsite facilities.**
- **Washwater for cleaning equipment at the operations and maintenance center shall be collected and recycled, and reused for washing or dust control.**
- **Stormwater that falls on the active working face of the landfill shall be collected and used for dust control. (Responsible Agencies: RCBSD)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**W-8**

**The liner system for the expansion of El Sobrante shall meet the following requirements:**

- **The liner system (inclusive of the bottom liner and the sideslope liner) of the landfill shall exceed the requirements of Subtitle D and California Code of Regulations (CCR) Title 27 and shall be composed of the alternative bottom liner (identified as Alternative Bottom Liner B2) and the alternative sideslope liner (identified as Sideslope Liner Alternative S2), which are both described and evaluated in Evaluation of Liner System Alternatives, El Sobrante Landfill Expansion, Riverside County, California, prepared by GeoSyntec Consultants and dated February 1998.**
- **If it is determined that this liner system will not meet the requirements of the regulatory agencies, a substitute liner system must be approved by the regulatory agencies, and evidence of such a determination shall be forwarded to the El Sobrante Landfill Administrative Review Committee of Riverside County. In this event, the substitute liner system shall be composed of a bottom liner and a sideslope liner that are at least equal to Alternative Bottom Liner B2 and Sideslope Liner Alternative S2, respectively, and must be approved by the Administrative Review Committee. (Responsible Agencies: LEA, RWQCB, CIWMB)**

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**W-9**

**Landfill gas collectors shall be placed as compacted lifts of waste are finished. Once sufficient waste has been placed above the collectors to prevent air intrusion, the collectors shall be used for active landfill gas extraction. (Responsible Agencies: LEA, RWQCB, CIWMB, SCAQMD)**



**Status:**

A LFG Collection and Control System (GCCS) has been in operation at the El Sobrante Landfill since 1993. The GCCS currently consists of approximately 170 vertical and horizontal extraction wells that are placed under vacuum via a piping network that extracts the LFG from the waste mass and conveys the LFG to both a Zink Ultra Low Emissions flare station and a LFG-to-energy facility. LFG is combusted in the flare station and used as a fuel in the LFG-to-energy facility to generate electricity. The GCCS is continually adjusted to minimize LFG impacts to groundwater and fugitive LFG emissions from the landfill. While El Sobrante principally relies on sufficient LFG extraction from the vertical well field to maintain compliance, the horizontal collectors are used as a compliance measure to collect any newly generated gas and prevent venting from the working face. Due to the generally arid climate of the area and the young age of the waste, the horizontal collectors do not collect a significant quantity of landfill gas from the landfill. No horizontal wells have been added to the GCCS since before 2005, but in 2013, a total of 6 horizontal wells were tied into the GCCS in Phases 9B/10; 3 were trenched in 2012 and 3 in 2013.

**W-10**

The final cover of the landfill shall conform to Subtitle D and CCR Title 27, and shall consist of a minimum of four (4) feet of vegetative layer in accordance with the augmented cover described in the EIR (State Clearinghouse No. 90020076). Any change from the augmented cover shall require clearance from the RCWMD, the California Integrated Waste Management Board (CIWMB), Regional Water Quality Control Board (RWQCB), the U.S. Fish and Wildlife Service (USFWS), and the California Department of Fish and Game (CDFG). (Responsible Agencies: LEA, RWQCB)

**Status:**

El Sobrante Landfill is in compliance with this mitigation measure.

**W-11**

In accordance with applicable regulations, landfill gas shall be monitored at the landfill perimeter and in the vadose zone. (Responsible Agencies: LEA, RWQCB, SCAQMD)

**Status:**

El Sobrante Landfill has sixteen (16) permanent perimeter gas probes (GP) with multiple completions in its approved monitoring network. The probes are monitored and reported in accordance with applicable regulations to ensure that landfill gas does not migrate off the landfill site. All 16 probes are spaced no more than 1,000 feet apart around the perimeter of the landfill in static locations. The probes are routinely tested and monitored on a quarterly basis by landfill staff and reported to the LEA. The LEA may also perform its own testing of random probes during their regular monthly inspections of the landfill and/or may monitor landfill staff's quarterly testing of the probes. If excess levels are detected during quarterly monitoring, regulations require that the LEA be immediately notified by the landfill operator and that each immediate notification be followed up with a letter from the landfill within 7 days. Whenever excess levels are detected, the site immediately takes all steps necessary to reduce methane levels and to protect public health and safety and the environment.

In 2013, there were no reportable excess levels of gas.

**W-12**

"Point of compliance" ground water monitoring wells, as required by CCR Title 27, shall be installed along the downgradient perimeter of the landfill footprint, pursuant to a monitoring plan approved by the RWQCB. These wells shall be sampled on a quarterly

basis beginning one year prior to landfilling each respective cell, and will provide a secondary warning of a leak in the liner system. (Responsible Agencies: LEA, RWQCB)

**Status:**

El Sobrante Landfill has implemented a "point of compliance" ground water monitoring program consisting of sixteen (16) ground water monitoring wells,, in compliance with CCR Title 27 and as approved by the RWQCB. Quarterly monitoring reports are provided to the RWQCB, and copies are maintained on site. All monitoring activity in 2013 was in compliance with RWQCB requirements.

**W-13**

If leachate or landfill gas generated by the landfill expansion were determined to be a potential risk to ground water, a corrective action plan shall be developed and implemented in conjunction with the RWQCB as required by CCR Title 27. (Responsible Agencies: LEA, RWQCB, SCAQMD)

**Status:**

In 2013, there was no determination that leachate or landfill gas generated by the landfill posed any risk to ground water, and a corrective action plan has not been developed nor implemented. Prior to approval of the landfill expansion project in 1998, a corrective action plan was implemented in 1996 for apparent landfill gas impacts to ground water from the original landfill footprint. This plan was developed and implemented in conjunction with the RWQCB. On June 4, 2003, the RWQCB gave El Sobrante permission to turn off the ground water remediation system as the impacts appeared to have been mitigated. Monitoring continues to this day and in the event that impacts appear to return, El Sobrante Landfill will re-institute the mitigation measures.

**W-14**

Whenever a specified material, design, system or action is required by the project or any exhibit thereto, USA Waste or its successor-in-interest may substitute such material, design, system or action, provided that:

- Such material, design, system or action complies with applicable Federal, State, and local regulations; and,
- Any Federal, State or local regulatory agency having jurisdiction has approved the use of the material, design, system or action for similar facilities (i.e., Class III landfills); and,
- The General Manager - Chief Engineer of the RCWMD, with concurrence of the appropriate regulatory agency(ies), has determined that such material, design, system or action is technically equal, or superior to, those required in these conditions. (Responsible Agencies: RCWMD, LEA, RWQCB)

**Status:**

During the January 14, 2015, ARC meeting, staff was directed to perform additional research regarding WMI's compliance with Measure W-14. Specifically, staff will review the Landfill Expansion EIR and 1994 Water Resources Technical Report, to determine the relationship, if any, with a proposed 'cut-off' wall and its application to Measure W-14.

**W-15**

USA Waste or its successor-in-interest shall deposit 50 cents per ton into a Third Party, Environmental Impairment Trust, which fund shall be established and maintained throughout the life of the project. Any balance in the existing fund contributed by USA Waste or its successor-in-interest under the First El Sobrante Landfill Agreement, as amended, shall continue to accrue with deposits from all waste delivered to the site on or after the start date, including interest earnings on the funds, until the fund has reached a total of \$2,000,000, at which time deposits may be discontinued until withdrawals cause the fund to fall below the \$2,000,000 cap. The cap shall increase annually by 90 percent of the change in the Consumer Price Index (CPI) starting in the year 2002. (Responsible Agencies: RCWMD)

**Status:**

The balance of the Environmental Impairment Trust at the end of 2013 was \$3,011,148.83. El Sobrante Landfill is in compliance with this mitigation measure.

**W-16**

Monies may be withdrawn from the Environmental Impairment Trust only for environmental remediation purposes with approval by USA Waste or its successor-in-interest and the General Manager - Chief Engineer of the RCWMD. The Trustee shall be required to report quarterly to the Department on all fund activity and balances. (Responsible Agencies: RCWMD)

**Status:**

El Sobrante Landfill did not withdraw any funds from this Trust in 2013.

# **Mitigation Monitoring Program Status Report**

## **Appendix**

### **A-1**

**Supplemental Irrigation Memorandum**

### **AQ-1**

**Landfill Gas Barrier Technical Memorandum**

### **AQ-5**

**2013 Annual Emissions Report**

### **AQ-11**

**CEQA Mitigation Monitoring Workplan for NO<sub>2</sub>**

### **AQ-12**

**Alternative Fuel Engines and Emission Control Technologies  
Transfer Truck Operations Analysis**

### **AQ-13**

**Annual 2014 Mitigation Monitoring Program Status Report**

### **AQ-14**

**Off-Road Vehicles Idling Policy**

### **T-3**

**Peak Hour Avoidance Letter  
2012/2013 Data**

### **W-2**

**Annual Report for Storm Water Discharges Associated with Industrial Activities  
Analytical Report**

### **W-3**

**Storm Water Pollution Prevention Plan (SWPPP)**