

County of Los Angeles
Countywide Integrated Waste Management Plan

2011 Annual Report



**Countywide Summary Plan &
Countywide Siting Element**

County of Los Angeles
Department of Public Works
August 2012





GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 16, 2012

IN REPLY PLEASE
REFER TO FILE: **EP-5**

Ms. Caroll Mortensen
Director
Department of Resources
Recycling and Recovery
Cal/EPA Building
1001 I Street
Sacramento, CA 95812-4025

Dear Ms. Mortensen:

**TRANSMITTAL OF THE 2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN
SUMMARY PLAN AND SITING ELEMENT ASSESSMENTS**

Enclosed for your review and approval is the 2011 Annual Report for the Summary Plan and Siting Element of the Los Angeles County Countywide Integrated Waste Management Plan pursuant to Section 41821 of the Public Resources Code.

The 2011 Annual Report includes discussion on the status of the revised Siting Element which is anticipated to be disseminated for public comment during 2014 and submitted to CalRecycle in early 2016. Also included in the 2011 Annual Report are permit changes, in-depth assessments of the County's disposal capacity needs, detailed updates on the remaining permitted in-County disposal capacity, and the County's strategies for maintaining adequate disposal capacity through 2026.

Through the analyses of nine scenarios, the 2011 Annual Report demonstrates that the County would meet the disposal capacity requirements of Assembly Bill 939 through a multi-pronged approach which includes successfully permitting and developing proposed in-County landfill expansions, utilizing available or planned out-of-County disposal capacity, developing necessary infrastructure to facilitate exportation of waste to out-of-County landfills, and developing conversion and other alternative technologies. Additionally, by continuing to enhance diversion programs and increasing the Countywide diversion rate, jurisdictions in Los Angeles County may further ensure adequate disposal capacity is available to serve the needs of the residents and businesses through the planning period.

Ms. Caroll Mortensen
August 16, 2012
Page 2

If you have any questions regarding this Annual Report, please contact me at (626) 458-3500 or Mr. Bahman Hajialiakbar at (626) 458-3502, Monday through Thursday, 7:00 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

A handwritten signature in black ink that reads "Pat Proano". The signature is written in a cursive, flowing style.

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

NR:dy
P:\Sec\2011 AR Cover Ltr

Enc.

cc: California Department of Resources Recycling and Recovery Office of Local Assistance for Southern California
Each City Mayor in the County of Los Angeles
Each City Recycling Coordinator in the County of Los Angeles
Each Member of the Los Angeles County Integrated Waste Management Committee/Integrated Waste management Task Force
Each Member of the Los Angeles County Regional Planning Commission

2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

TABLE OF CONTENTS

WHAT IS THE ANNUAL REPORT?	1	<i>San Clemente Landfill.....</i>	<i>60</i>
SECTION D: SUMMARY PLAN ASSESSMENT (FORM)	2	<i>Scholl Canyon Landfill</i>	<i>61</i>
SUMMARY PLAN.....	3	<i>Scholl Canyon Landfill Expansion.....</i>	<i>62</i>
REGIONAL SOLID WASTE ISSUES	4	<i>Southeast Resource Recovery Facility (SERRF).....</i>	<i>63</i>
SECTION E: SITING ELEMENT ASSESSMENT (FORM)	9	<i>Sunshine Canyon City/County Landfill.....</i>	<i>64</i>
SITING ELEMENT REVISION	11	<i>Whittier (Savage Canyon) Landfill.....</i>	<i>65</i>
PERMIT CHANGES	13	<i>Whittier (Savage Canyon) Landfill Expansion</i>	<i>66</i>
DISPOSAL ANALYSIS FOR 2011	18		
STRATEGY FOR MAINTAINING ADEQUATE DISPOSAL CAPACITY	29		
JURISDICTION/REGIONAL AGENCY CONTACT	46		
Appendix E-1 Solid Waste Facility Fact Sheets			
<i>Antelope Valley Recycling & Disposal Facility</i>	<i>47</i>		
<i>Azusa Land Reclamation Landfill</i>	<i>48</i>		
<i>Burbank Landfill.....</i>	<i>49</i>		
<i>Calabasas Landfill</i>	<i>50</i>		
<i>Chiquita Canyon Landfill.....</i>	<i>51</i>		
<i>Chiquita Canyon Landfill Expansion.....</i>	<i>52</i>		
<i>Commerce Refuse-to-Energy Facility(CREF)</i>	<i>53</i>		
<i>Eagle Mountain Landfill</i>	<i>54</i>		
<i>Lancaster Landfill and Recycling Center</i>	<i>55</i>		
<i>Lancaster Landfill and Recycling Center Expansion.....</i>	<i>56</i>		
<i>Mesquite Regional Landfill.....</i>	<i>57</i>		
<i>Pebbly Beach Landfill.....</i>	<i>58</i>		
<i>Puente Hills Landfill</i>	<i>59</i>		
		Appendix E-2 Tables	
		<i>Table 1 - Remaining Permitted Capacity of Existing Solid Waste Disposal Facilities in Los Angeles</i>	
		<i>Table 2 - Disposal Capacity of Inert Debris Engineered Fill Operations in Los Angeles County</i>	
		<i>Table 3 - Out-of-County Landfills Currently Available to Los Angeles County</i>	
		<i>Table 4 - Population, Employment, and Taxable Sales in Los Angeles County</i>	
		<i>Table 5 - Los Angeles County Solid Waste Disposal Capacity Projection for Planning Period 2011-2026</i>	
		Appendix E-3 Comparison of Daily Disposal Demand and SB 1016 Limit	
		<i>Table 1 - Base Year Projections Based on SB 1016 Limit</i>	
		<i>Table 2 - Comparison of Daily Disposal Demand and SB 1016 Disposal Limit</i>	
		Appendix E-4 Disposal Capacity Analysis Scenarios	
		Appendix E-5 Map of Transfer and Processing Facilities	
		Appendix E-6 Map of Landfills	

2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

ACRONYMS AND GLOSSARY OF TERMS

ADC	Alternative Daily Cover
CSE	Countywide Siting Element (Siting Element)
CUP	Conditional Use Permit
DRS	Disposal Reporting System
EIR	Environmental Impact Report
FOC	Finding of Conformance
IDEFO	Inert Debris Engineered Fill Operation
LARA	Los Angeles Regional Agency
LEA	Local Enforcement Agency
MSW	Municipal Solid Waste
Public Works	Los Angeles County Department of Public Works
Sanitation Districts	County Sanitation Districts of Los Angeles County
SRRE	Source Reduction and Recycling Element
Summary Plan	Los Angeles County Countywide Integrated Waste Management Summary Plan
SWFP	Solid Waste Facility Permit
SWIMS	Solid Waste Information Management System
Task Force	Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force
TPD	Tons per Day, Based on 6 Operating Days per Week
TPW	Tons per Week
TPY	Tons per Year
UCLA	University of California, Los Angeles
CalRecycle	California Integrated Waste Management Board (formerly Waste Board)
WTE	Waste-to-Energy

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

WHAT IS THE ANNUAL REPORT?

The California Integrated Waste Management Act of 1989, also known as Assembly Bill 939, mandates jurisdictions to meet a diversion goal of 50 percent by 2000 and thereafter. In addition, each county is required to prepare and administer a Countywide Integrated Waste Management Plan. This plan is comprised of the county's and the cities' solid waste reduction planning documents plus an Integrated Waste Management Summary Plan (Summary Plan) and a Countywide Siting Element (CSE). In order to assess jurisdiction's compliance with AB 939, the Disposal Reporting System was established to measure the amount of disposal from each jurisdiction and determine if it has met the goals.

For Los Angeles County, the County's Department of Public Works (Public Works) is responsible for preparing and administering the Summary Plan and the CSE. These documents were approved by the County, a majority of the cities within the County containing a majority of the cities' population, the County Board of Supervisors, and CalRecycle.

The Summary Plan, approved by CalRecycle on June 23, 1999, describes the steps to be taken by local agencies, acting

independently and in concert, to achieve the mandated state diversion rate by integrating strategies aimed toward reducing, reusing, recycling, diverting, and marketing solid waste generated within the County.



The CSE, approved by CalRecycle on June 24, 1998, identifies how, for a 15-year planning period, the county and the cities within would meet their long-term disposal capacity needs to safely handle solid waste generated in the county that cannot be reduced, recycled, or composted.

The purpose of the Annual Report is to provide an annual update to the Los Angeles County Countywide Integrated Waste Management Plan. The Department of Public Works

prepares the Annual Report to summarize the changes that have taken place since the approval of the Summary Plan and the CSE by the jurisdictions and CalRecycle. It consists of Section D: Summary Plan Assessment and Section E: Siting Element Assessment. The other sections pertaining to individual jurisdictions, namely, Sections A, B, C, and H, are included in a separate annual report from each jurisdiction.

SECTION D: SUMMARY PLAN ASSESSMENT (FORM)

Check each item as completed, providing attachments as applicable.

D-1 Does the Summary Plan need to be revised? For example, have there been any significant changes in the financing of Countywide or regional programs and/or facilities, in demographics, in solid waste management infrastructure, or in planning documents; i.e., Source Reduction and Recycling Element (SRRE), Household Hazardous Waste Element, or Non-Disposal Facility Element from any of the jurisdictions within the County?

Yes. Discuss below. Include a time schedule for revising the Summary Plan.

No.

Discussion

Please see **Summary Plan** (page 3) and **Regional Solid Waste Issues** (page 4) for a discussion of the Summary Plan.

2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

SUMMARY PLAN

The Summary Plan, approved by CalRecycle in 1999, was prepared and administered by the County to describe the steps to be taken by jurisdictions, acting independently and in concert, to achieve the 50 percent waste diversion mandate.

Since then, a number of changes have occurred, such as regional solid waste management, demographics, and public awareness of environmental stewardship. At the same time, the County and cities continue to enhance and expand their waste reduction efforts in response to changing conditions.

Jurisdictions in the County of Los Angeles continue to implement and enhance the waste reduction, recycling, special waste, and public education programs identified in their SRREs, Household Hazardous Waste Element, and Non-Disposal Facility Element (as updated through their Annual Reports).

These efforts, together with Countywide and regional programs implemented by the County and the cities, acting in concert or independently, have achieved significant, measurable results.

As such, CalRecycle approved the County's second Five-Year

Review Report in August 2010, which concluded that an update to the Summary Plan is not necessary.

The following section is a summary discussion on the various regional solid waste issues that currently play a significant role in the County's continuing solid waste management efforts, including markets for recyclable materials, development of alternative technology facilities, diversion credit for such technology, and the State's new 75-percent recycling goal.



REGIONAL SOLID WASTE ISSUES

Disposal Trend During Economic Recession

Due to lack of consumer demands for materials, slowdown in the construction industry and production and manufacturing of goods, the amount of waste that residents and businesses generated as well as disposed of in Los Angeles County continue to remain relatively low.

Figure 1: Disposal Trend

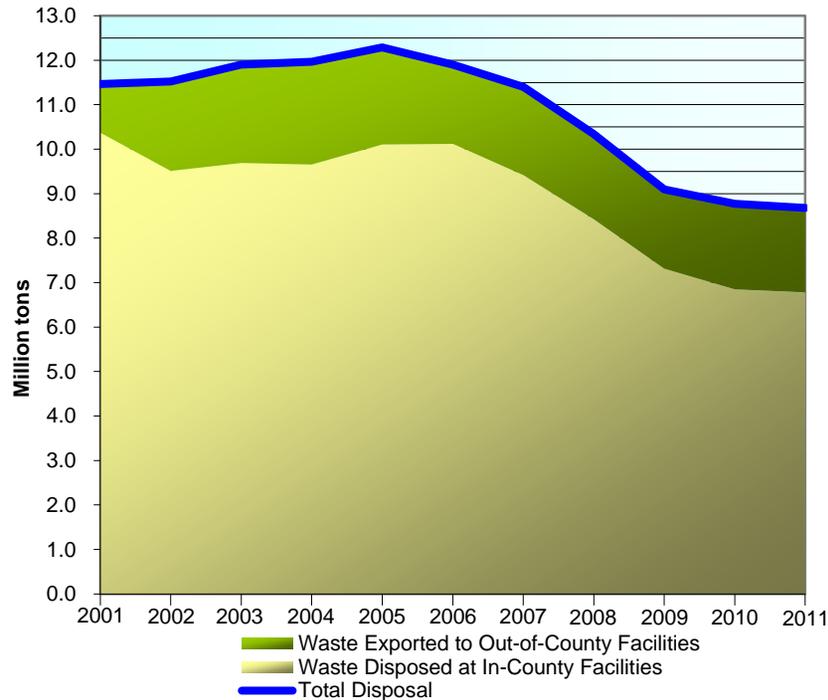
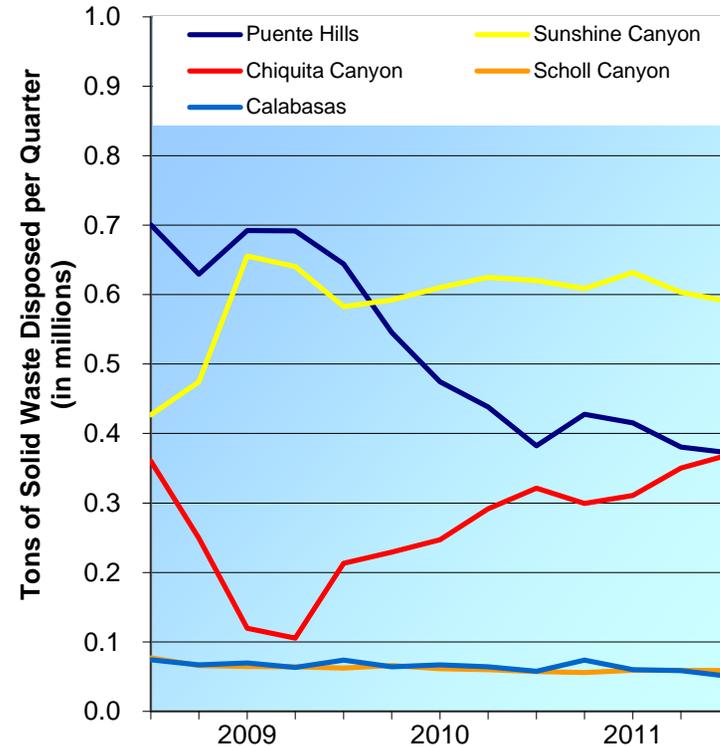


Figure 1 shows a downward disposal trend from 2005 to 2009. Thereafter, the trend plateaus. **Figure 2** shows disposal trends of selected facilities within the County. The trends generally plateau in 2011.

Figure 2: Disposal Trend at Major Landfills

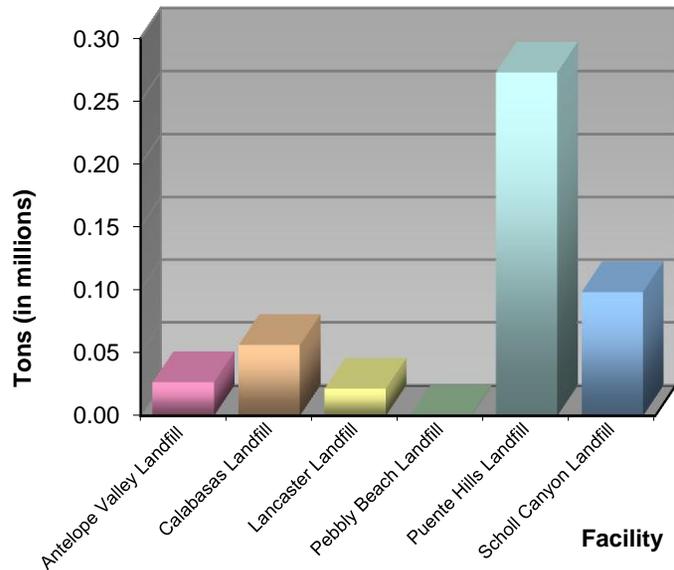


2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

Green Waste as Alternative Daily Cover

As the closure of Puente Hills Landfill in 2013 draws near, jurisdictions that currently depend on the facility to recycle their green waste as alternative daily cover (ADC) must secure alternative sites to recycle or compost their green waste in order to continue to meet their diversion goals. As shown in **Figure 3**, of the 476,918 tons of greenwaste ADC used at in-County landfills, Puente Hills Landfill alone accepted 57 percent, or 273,133 tons, which is equivalent to an average of 875 tons per day (tpd-6).

Figure 3: Use of Green Waste as ADC in 2011



Cities, the County, and the waste management industry are working towards developing alternatives for the management of greenwaste in the aftermath of the Puente Hill Landfill closure. The County faces major challenges, such as inadequate green waste management capacity in the County due to difficulties encountered in permitting and developing composting facilities, limited markets for compost made from green waste, and increasing costs for long-distance transportation to out-of-County facilities and operations.

Projected Shortfall of Available Permitted Disposal Capacity

As detailed in **Strategy for Maintaining Adequate Disposal Capacity** (page 29), a shortfall of permitted solid waste disposal capacity in the County is anticipated under current conditions. To meet their disposal needs during the planning period, jurisdictions in the County must further enhance their waste reduction and diversion efforts, continue to encourage development of alternative technologies such as waste-to-energy and conversion technology facilities, encourage further development of in-county Landfills, adopt policies that promote and support the use of out-of-county facilities such as Mesquite Regional Landfill, as well as site and expand processing facilities in areas where processing capacity is inadequate.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Los Angeles County's Conversion Technology Efforts

Los Angeles County continues to support alternatives to landfills, such as conversion technologies. These processes are capable of processing materials that cannot be recycled into renewable energy, biofuels, and other useful products.

One of the three demonstration projects supported by Los Angeles County will be breaking ground during the second half of 2012. Owned and operated by CR&R Incorporated, this facility will integrate MRF operations with a 150 ton-per-day anaerobic digester to process the organic component of the wastestream into biogas, which in turn can be cleaned and injected into the common carrier pipeline as renewable natural gas, or upgraded into compressed natural gas for use in CR&R's truck fleet. This project is the first of its kind in California.



In 2011, Public Works developed several resources for stakeholders to facilitate the development of commercial conversion technology projects within Los Angeles County.

A number of solid waste management companies and jurisdictions in Los Angeles County expressed interest in siting a

conversion technology project at their facility or within their jurisdiction. Over 24 sites consisting of MRF facilities, landfills, and industrially-zoned areas are currently under consideration. Since each site and jurisdiction is different, Public Works is meeting individually with each site owner/operator to discuss project options and opportunities.

In June 2011, Public Works issued a Request for Expressions of Interest (RFEI) to technology vendors and financial institutions. The purpose of this RFEI was to gather current and pertinent data about the current technology marketplace, conduct a preliminary screening using County-specific criteria, and compile this information in a user-friendly online database for stakeholders. Additionally, Public Works issued an RFEI to financial

institutions experienced in financing renewable energy and solid waste projects, to determine their level of interest in funding a project in Los Angeles County. Thirty-six responses were received from technology vendors and 11 responses were received from financial institutions. To expand the database and ensure the information remains current, Public Works is planning to open the RFEI process on a regular basis, to provide a means for additional companies to submit information for review and publication.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Moving forward, Public Works is developing a web-based economic model for stakeholders to estimate reasonable tip fees for a conversion technology facility based on size, technology type, and current market conditions. Public Works is also exploring grant opportunities that would help fund a “Conversion Technology Center”, a comprehensive clearinghouse of information that can be utilized by the public and private sectors as well as academia.

City of Los Angeles’ Alternative Technology Efforts

On May, 25, 2011, the City of Los Angeles, Board of Public Works authorized the Bureau of Sanitation (Bureau) to enter into contract negotiations with Green Conversion Systems (GCS) to develop the first alternative technology facility. GCS, a waste-to-energy project developer, is proposing to build a 1,100 ton per day facility in the City of Los Angeles that would include an upfront pre-processing system (recovery of recyclables) followed by a waste-to-energy system (a second generation WTE). In addition, the Board directed the Bureau and City Attorney to review the Request for Proposals for the possibility of concurrent contract negotiations with Urbaser & Keppel Seghers for the second alternative technology facility.

In 2011, the City authorized the Bureau of Sanitation (Bureau) to enter into contract negotiations with Green Conversion Systems (GCS) and Urbaser-Keppel Seghers for development of the first commercial scale alternative technology facilities. GCS proposed to build a 1,100 ton per day facility that would include an upfront mechanical pre-processing system to separate and recover recyclables materials, followed by an

advanced thermal recycling system to produce energy and recover by-products. Urbaser-Keppel Seghers proposed an emerging Alternative Technology facility with the flexibility for the Bureau to negotiate for increased tonnage. In 2012, the Bureau began contract negotiation with GCS for the development of the first commercial alternative technology facility.



California’s 75-Percent “Recycling” Goal

On October 6, 2011, Governor Brown signed Assembly Bill 341 establishing a State policy goal that no less than 75-percent of solid waste generated be source reduced, recycled, or composted by 2020, and requiring CalRecycle to provide a report to the Legislature that recommends strategies to achieve the policy goal by January 1, 2014. The bill also mandates local jurisdictions to implement commercial recycling by July 1, 2012. Subsequently, CalRecycle began holding workshops to receive

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

feedback from stakeholders and released for public comment a draft report entitled, *California's New Goal: 75 Percent Recycling*.

Jurisdictions in Los Angeles County will be working with CalRecycle during the stakeholder process to assist in developing the strategies with an emphasis on State policies and activities that supplement and enhance existing statewide and local recycling efforts; sound, science-based recommendations; minimal potential impacts of the proposal on cities' and County's AB 939 compliance; and continued diversion credit for green waste as an alternate daily cover at landfills.

Markets for Recovered Materials

The County strongly recommends CalRecycle to continue its efforts to address the need to develop sufficient Statewide markets and take a leadership role in the expansion of markets for recycled products. These efforts are of greater necessity due to the recent decline in the market value of recyclable materials and are in line with the Statewide goal of 75 percent "recycling."

State recycling mandates have long created an extensive supply of diverted materials, but have not fully addressed the demand side of the "recycling equation." The result has been a substantial dependence on foreign markets for our recyclable materials, where there are substantially inadequate environmental controls for processing these materials.

While collection of recyclable materials is an important element of our integrated solid waste management system and is imperative in reducing our dependence on landfills, true success of recycling efforts can only be realized with a strong market demand for recovered materials.

Extended Producer Responsibility

To facilitate a comprehensive solid waste management strategy, the County strongly supports Statewide legislation, regulations, and/or policies that establish product stewardship, also known as extended producer responsibility (EPR). EPR is an adopted strategic policy that shifts the responsibility of product waste management from local governments to producers and manufacturers. EPR emphasizes product designs that promote environmental sustainability and minimize the negative impact on human health and the environment, as well as considers the cost of treatment and disposal in the total cost of the product.

Landfill Gas as Renewable Energy

Local agencies have a history of encouraging and proactively supporting energy production from landfill gas within the County, such as those developed by the County Sanitation Districts at the Puente Hills, Scholl Canyon, and Calabasas Landfills, and more recently that developed by the operator of the Chiquita Canyon Landfill. It is anticipated that more landfills will be developing similar projects in the near future.

SECTION E: SITING ELEMENT ASSESSMENT (FORM)

Check each item as completed, providing attachments as applicable.

[✓] **E-1** *Describe the changes in remaining disposal capacity facility description, pursuant to the California Code of Regulations (CCR) Section 18755.5, since the Los Angeles County Countywide Siting Element (Siting Element) adoption.*

[✓] *Attach the remaining capacity description (label as Appendix E-1) that includes the following information for each facility:*

- a. Name of the facility and name of facility owner and operator*
- b. Facility permit number, permit expiration date, date of last permit review, and an estimate of remaining site life*
- c. The maximum permitted daily and yearly rates of waste disposal in tons and cubic yards*
- d. The permitted types of wastes*
- e. The expected land use for the site and if site closure is expected to occur within the 15-year planning period*

Discussion

Please see **Permit Changes** (page 13) for a summary of the changes in the remaining disposal capacity facility. Detailed description of each facility is provided in **Appendix E-1**.

2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

E-2 *Has the County or regional agency maintained or provided a strategy that provides for the maintenance of 15 years of disposal capacity?*

Yes. Attach a table (label as Appendix E-2) with the total disposal capacity the County or regional agency has for each year for the next 15 years in tons and cubic yards.

No. Attach a table (label as Appendix E-2) with the total disposal capacity the County or regional agency has for each year for the next 15 years in tons and cubic yards.

Discussion

Please see **Strategy for Maintaining Adequate Disposal Capacity** (page 29) for a discussion on how the County will maintain 15 years of disposal capacity. Detailed data is provided in **Appendix E-2, E-3, and E-4**.

E-3 *Examine the adequacy of the Siting Element. Has the County or regional agency maintained 15 years of disposal capacity, as described in E-2 above.*

Yes. (No revision necessary.)

Yes. However, revision will be needed to add new disposal sites and/or strategies. Attach a discussion of the new sites or strategies and include a time schedule for revising the Siting Element and label as Appendix E-4.

No. Attach a discussion of how additional capacity will be provided, and include a time schedule for revising the Siting Element. Label as Appendix E-4

Discussion

The Siting Element is currently being revised to remove two sites previously identified as landfills and add new strategies, including promoting the development of alternative technology facilities and infrastructure to facilitate exportation of waste to Mesquite Regional Landfill in Imperial County. Please see **Strategy for Maintaining Adequate Disposal Capacity** (page 29) for a detailed discussion. Data is provided in **Appendices E-1 through E-4**. **Appendices E-5 and E-6** show locations of current transfer and process facilities and disposal sites within the County.

SITING ELEMENT REVISION

AB 939, as amended, requires each county to prepare a countywide siting element that describes how the county, and the cities within the county plan to manage the disposal of their solid waste for a 15-year planning period. The existing Los Angeles County Countywide Siting Element (CSE) was approved by the majority of the cities in the County containing a majority for the cities' population, the Board of Supervisors in January 1998, and by CalRecycle on June 24, 1998.

The CSE establishes goals and policies for the County to maintain adequate permitted disposal capacity for a 15-year planning period. To provide the needed disposal capacity, the CSE offers strategies and establishes siting criteria to aid in evaluating the feasibility of potential sites for development of solid waste management and disposal facilities. Out-of-County landfills potentially available to accept waste generated in the County are also identified. Additionally, the CSE includes goals and policies to facilitate the use of out-of-County/remote landfills and foster the development of alternatives to landfill disposal.

In August 2010, CalRecycle approved the County's second Five-Year Review Report, which provides a comprehensive analysis on the adequacy of the Summary Plan and Siting Element. The Five-Year Review Report, confirmed the need to revise the CSE. The County continues to work with the Los Angeles County Integrated Waste Management Task Force in revising the CSE.



The revised CSE, which would cover the 15-year planning period beginning 2010 through 2025, is anticipated to reflect the following significant changes compared to the current version:

- ❖ Removal of Elsmere and Blind Canyons as potential new landfill sites in accordance with the Board of Supervisors' decision on September 30, 2003 to remove those sites from the list of potential new landfill sites;

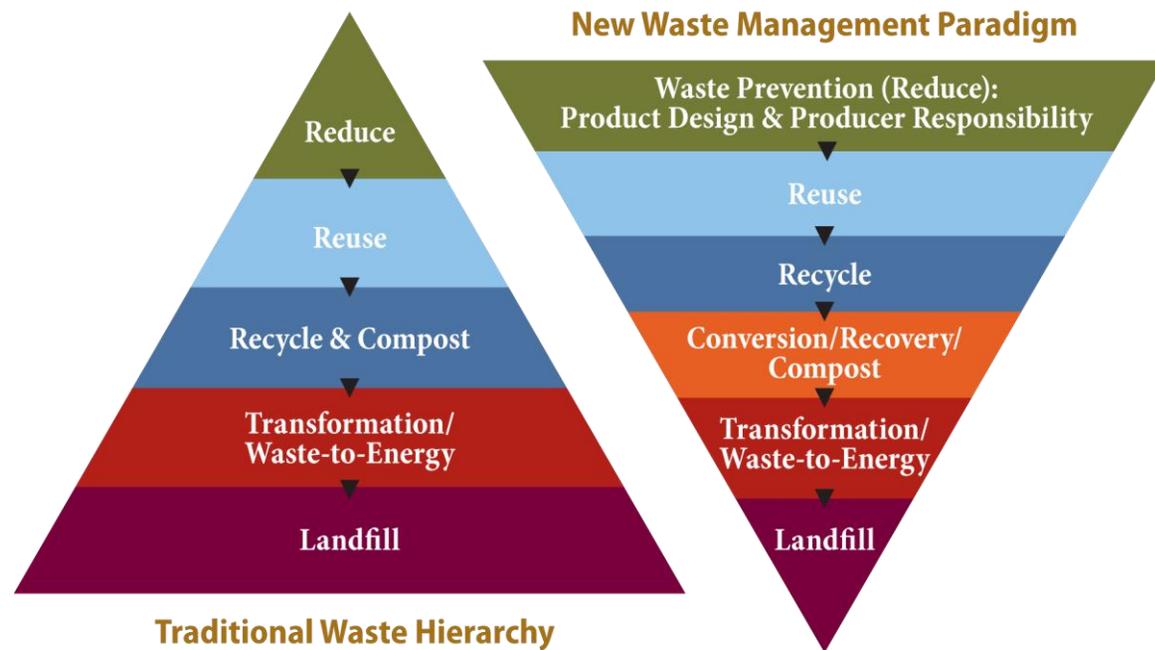
2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

- ❖ Expansion of several in-County Class III landfills in order to increase landfill capacities within the County;
- ❖ Updates to the goals and policies to be consistent with a new solid waste management paradigm to enhance the comprehensiveness of the Los Angeles County's solid waste management system and incorporate current and upcoming solid waste management processes and technologies;
- ❖ Promotes the development of alternatives to landfilling such as conversion technologies, on a Countywide basis; and
- ❖ Promotes the development and use of infrastructure to transport solid waste to out-of-County landfills such as Mesquite Regional Landfill to complement the County's waste management system.

The draft revised CSE and its environmental document will undergo a review and approval process in compliance with numerous statutory and regulatory requirements. This includes CEQA review, and review and approval by jurisdictions in Los Angeles County, the County Board of Supervisors, and CalRecycle.

The goal is to complete the entire revision process, disseminate the document for public comment, and submit the final draft CSE and the environmental document to CalRecycle by early 2016.



PERMIT CHANGES

Expanded Facilities

Antelope Valley Recycling and Disposal Facility Landfill I

The Antelope Valley Recycling and Disposal facility is owned and operated by Waste Management of California, Inc. and consists of two distinct areas, designated as Landfill I and Landfill II. Landfill I was annexed into the City of Palmdale in December 1963, as part of the City's incorporation. It consisted of 65 acres with a permitted disposal area of 57 acres and a permitted disposal capacity of 1,400 tons per day (tpd). Landfill I reached its disposal capacity in March 2008.

Antelope Valley Recycling and Disposal Facility Landfill II

Landfill II was issued Conditional Use Permit (CUP) No. 85-512-(5) on April 8, 1992, by the Los Angeles County Regional Planning Commission as a horizontal, non-contiguous expansion of Landfill I into the then adjacent County unincorporated area. The Regional Planning Commission later granted CUP No. 93-041-(5), which amended condition 10d of CUP No. 85-512-(5) to increase the net tonnage of waste placed in Landfill II to a maximum of 1,800 tpd. Landfill II was issued a Solid Waste

Facility Permit (SWFP) on June 12, 1997, and was subsequently annexed into the City of Palmdale on August 27, 2003. Landfill II consisted of 75 acres with a permitted disposal area of 54 acres. Landfill II began operations in April 2008.



Antelope Valley Recycling and Disposal Facility (combined Landfills I and II including the "bridge" area)

On June 9, 2011, the City of Palmdale Planning Commission approved a new Conditional Use Permit (CUP) to allow expansion of an 11-acre bridge area located between Unit I and Unit II to allow for a single waste footprint. CalRecycle issued a revised SWFP for the expansion on November 16, 2011. A Finding of Conformance (FOC) was granted by the Task Force on November 17, 2011. The expansion results in an additional 8.96 million

tons of capacity and adds approximately 8 years of life to the landfill at the maximum permitted rate of disposal. The maximum daily disposal capacity remains at 1,800 tpd. Refer to **Appendix E-1** for more detailed information.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Pebble Beach Landfill

The Pebble Beach Landfill is owned by the City of Avalon and operated by Republic Services, Inc. With the closure of the Two Harbors Landfill in October 1995, the Pebble Beach Landfill became the only Class III landfill on Santa Catalina Island. A new CUP was issued on July 29, 1998, for the expansion project. The revised SWFP was issued on April 10, 2001. The expansion of the existing Landfill also included a materials recovery and composting operation. Refer to **Appendix E-1** for more detailed information.



Puente Hills Landfill

The Puente Hills Landfill is owned and operated by the Sanitation Districts of Los Angeles County (Sanitation Districts).

On January 23, 2002, the Sanitation Districts' Board of Directors certified the Final Environmental Impact Report (EIR) for the expansion project. The County of Los Angeles Regional Planning Commission granted a new CUP on December 18, 2002 and limited the life of the project to October 31, 2013. The Task Force granted a FOC on February 20, 2003. CalRecycle approved the project on July 11, 2003, and issued a revised SWFP. Operation of the expanded landfill began on November 1, 2003. The expansion increased the life of the landfill by ten years at a maximum daily disposal capacity of 13,200 tpd. Refer to **Appendix E-1** for more detailed information.

Sunshine Canyon City Landfill

The Landfill is located within the jurisdiction of City of Los Angeles. It is owned and operated by Browning-Ferris Industries, a subsidiary of Republic Services. On December 18, 1999, the City of Los Angeles issued a land use permit for the development of the City Landfill Unit 2. On May 21, 2003, CalRecycle issued a revised SWFP for Phase I of the City Landfill Unit 2. On June 17, 2004, the State Water Resources Control Board approved the Waste Discharge Requirements permit for Phase I. The Phase I disposal area is designed to be approximately 84 acres with a capacity of approximately 7.5 million tons. Operation of the expansion project began in July 2005.

Sunshine Canyon County Landfill

The Landfill is located within the County unincorporated area under the jurisdiction of the County. It is also owned and

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

operated by Browning-Ferris Industries, a subsidiary of Republic Services, Inc. On February 6, 2007, the County Board of Supervisors approved a replacement CUP to allow development and full utilization of the portion of the landfill in the unincorporated area and a combined City/County landfill. The CUP became effective on May 24, 2007. CalRecycle issued a revised SWFP on February 21, 2007. These actions allowed for the operation of the City and County Landfills to be combined under specified conditions.

Sunshine Canyon City/County Landfill

On December 18, 1999, the City of Los Angeles issued a land use permit for the development of the City Landfill Unit 2. On February 6, 2007, the County Board of Supervisors approved a replacement CUP that allows for the operations of the City and County Landfills to be combined under specified conditions. After receiving the replacement CUP, Browning-Ferris Industries submitted an application for a new SWFP for the City/County Landfill on October 3, 2007. Due to the jurisdictional complexity of the joint Landfill, CalRecycle decided to process the SWFP application and designate a new LEA for the duties of overseeing the operation. The new SWFP was issued on July 7, 2008, and the Sunshine Canyon Landfill-LEA was certified on July 22, 2008. On December 23, 2008, the City and the County entered into a Memorandum of Understanding to allow coordination of specified land use requirements for more efficient administration of the Landfill. On December 31, 2008, the City adopted a resolution to allow immediate operation of Phase II. Thereafter, the County's Technical Advisory Committee determined that BFI has satisfied all the

requirements for a combined SCL effective December 31, 2008. On the same day, Browning-Ferris Industries began operation of the City/County Landfill. Refer to **Appendix E-1** for more detailed information.



Proposed Facility Expansions

Chiquita Canyon Landfill Expansion

The Chiquita Canyon Landfill was previously operated by Republic Services, Inc. In October 2004, Republic Services submitted an application for a new CUP, proposing a horizontal and vertical expansion of about 32 million tons and an increase in disposal area of 98 acres. The weekly disposal capacity would remain at 30,000 tons per week (tpw). On

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

December 5, 2008, Republic Services merged with Allied Waste Industries, Inc. As a condition of the merger, Republic Services was required to divest the Chiquita Canyon Landfill. Republic Services and Waste Connections signed a definitive agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc. on February 6, 2009. In 2011, Waste Connections, Inc. re-submitted an application to request an expansion of the waste footprint and an increase in the allowable daily tonnage. The County of Los Angeles Department of Regional Planning prepared a Notice of Preparation and circulated it for public comments from November 28, 2011 to February 13, 2012. Refer to **Appendix E-1** for more detailed information.



Lancaster Landfill and Recycling Center Expansion

The Lancaster Landfill and Recycling Center is owned and operated by Waste Management of California, Inc. On December 14, 2011, Los Angeles County Regional Planning Commission approved a new CUP to extend landfilling operations by 30 years and increase the maximum daily disposal capacity from 1,700 tpd to 3,000 tpd. The new CUP is anticipated to take effect on August 1, 2012. Refer to **Appendix E-1** for more detailed information.

Scholl Canyon Landfill Expansion

The Scholl Canyon Landfill is located north of the Ventura Freeway in the City of Glendale. The Landfill is operated by the Sanitation Districts pursuant to a Joint Powers Agreement between the Sanitation Districts, City of Glendale, and the County. The Landfill is operating under a Use Variance (Case No. 6668-U) granted on November 27, 1978. The City of Glendale is proposing an expansion consisting of two variations: vertical expansion only, providing approximately five million tons of additional capacity (Variation 1) and vertical and horizontal expansion, providing approximately six million tons of additional capacity (Variation 2). Under both variations, the landfill would continue to be permitted to receive 3,400 tons per day of non-hazardous solid waste, and existing resource and material recovery programs will continue to be implemented. On December 4, 2007, the Sanitation Districts initiated the CEQA process on behalf of the City of Glendale for the landfill expansion and circulated the Notice of Preparation/Initial Study. Refer to **Appendix E-1** for more detailed information.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Whittier (Savage Canyon) Landfill Expansion

The Whittier Landfill is owned and operated by the City of Whittier. The City Public Works Department is proposing to increase the site capacity from approximately 8.1 million cubic yards, as identified in the current SWFP issued on February 28, 1995, to 12.5 million cubic yards. The Local Enforcement Agency received an application for Solid Waste Facility Permit modification on March 2, 2012. Refer to **Appendix E-1** for more detailed information.



Other Changes

Bradley Landfill and Recycling Center

The Bradley Landfill and Recycling Center is owned and operated by Waste Management of California, Inc. An amended City of Los Angeles Zoning Permit was issued March 18, 1996. Thereafter a revised SWFP was issued on August 15, 1996, to increase the maximum permitted daily capacity from 7,000 tpd

to 10,000 tpd. Bradley Landfill and Recycling Center closed on April 14, 2007, as required by its land use permit.

Brand Park Landfill

The Brand Park Landfill is owned and operated by the City of Glendale. This facility now accepts inert waste only.

Southeast Resource Recovery Facility

The Southeast Resource Recovery Facility is owned by the City of Long Beach and operated by Monterey Pacific Power Corporation. A revised SWFP was issued on March 3, 1998, which increased the permitted daily capacity to 2,240 tpd. Refer to **Appendix E-1** for more detailed information.

Peck Road Gravel Pit

The Peck Road Gravel Pit is owned and operated by S.L.S. & N., Inc., and is a permitted inert waste landfill. On September 14, 2000, the City of Irwindale certified the EIR and approved CUP No. 95-4 for the Landfill's expansion. The Task Force granted a revised FOC on March 21, 2002. The facility surrendered its Solid Waste Facility Permit in 2011 and started operating as an Inert Debris Engineered Fill Operation (IDEFO) on March 24, 2011.

Mesquite Regional Landfill

The Sanitation Districts owns and operates the Mesquite Regional Landfill, located in Imperial County, and anticipates receiving a portion of the County's waste by truck or rail. Refer to **Out-of-County Disposal Facilities** (page 43) and **Appendix E-1** for more detailed information.

DISPOSAL ANALYSIS FOR 2011

Solid Waste Disposal

In 2011, residents and businesses in the County disposed of 8.22 million tons of solid waste at Class III landfills and transformation facilities located in and out of the County. In addition, the amount of inert waste disposed at permitted inert waste landfills totaled 71,854 tons. The following is a breakdown of disposal amounts at each type of disposal facility.



Annual Disposal Tonnage for 2011

In-County Class III Landfills	6,258,131	tons
Transformation Facilities	524,021	tons
Exports to Out-of-County Landfills	1,900,757	tons
Subtotal MSW Disposed	8,682,909	tons
Permitted Inert Waste Landfills	71,854	tons
Grand Total Disposed	8,754,763	tons

Average Daily Disposal Rate for 2011 (Based on Six Operating Days)

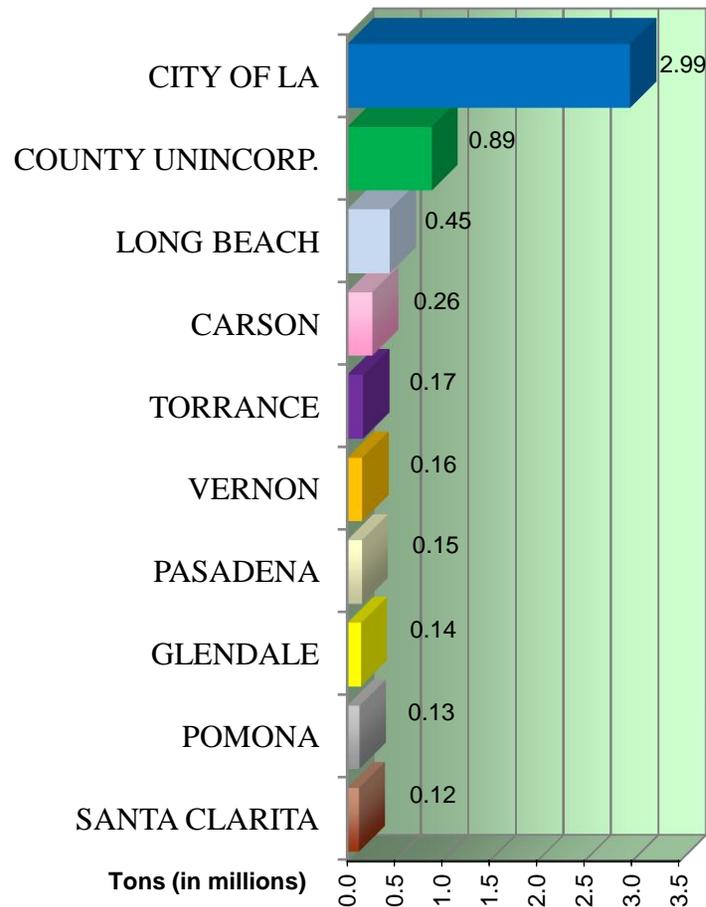
In-County Class III Landfills	20,058	tpd
Transformation Facilities	1,680	tpd
Exports to Out-of-County Landfills	6,092	tpd
Subtotal MSW Disposed	27,830	tpd
Permitted Inert Waste Landfills	357	tpd
Grand Total Disposed	28,187	tpd

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Figure 4 below shows the top 10 jurisdictions that disposed solid waste, including inert waste disposed at permitted inert waste landfills, in and outside of the County in 2011.

Figure 4: Top 10 Jurisdiction Disposal Quantities in 2011



Waste Generation

For the purpose of long-term disposal capacity planning, a somewhat conservative countywide diversion rate of 55 percent will be assumed for 2011. Given 8.7 million tons of disposal, the County generated approximately 19.3 million tons or an average of 61,844 tpd based on six operating days per week. Translating it into per capita generation rate, each person in the County generated 10.69 lbs of solid waste each day. A summary of waste generation and disposal quantities is provided below. Note that the estimates do not include inert waste disposed at permitted inert waste landfills.

2011 Waste Generation and Disposal Quantities for Municipal Solid Waste					
A	B	C	D	E	F
In-County Disposal		Out-of-County Class III Landfills (Exports)	Total Disposal*	Estimated Countywide Diversion Rate	Calculated 2011 Solid Waste Generation*
Class III Landfills	Transformation Facilities	TONS			
TONS	TONS	TONS	TONS	%	TONS
6,258,131	524,021	1,900,757	8,682,910	55	19,295,355
* Data from permitted inert waste landfills is excluded from these calculations.					
Column A:	Total disposal at Class III landfills in Los Angeles County. Does not include waste imported from jurisdictions outside the County.				
Column B:	Total disposal at transformation facilities in Los Angeles County. Does not include waste imported from jurisdictions outside the County.				
Column C:	Waste exported by jurisdictions in Los Angeles County to disposal facilities located outside the County.				
Column D:	Columns A + B + C.				
Column E:	A Countywide Diversion Rate of 55 percent is assumed.				
Column F:	Column D ÷ Column E. This estimate is used to project the County's Class III landfill and transformation disposal needs through the year 2026.				

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

SB 1016

With the implementation of Senate Bill 1016, CalRecycle no longer calculates diversion rate based on actual disposal and estimated annual generation using CalRecycle's adjustment methodology. As a result, Countywide diversion rates are no longer calculated. The last diversion rates approved by CalRecycle were for 2006. Considering each jurisdiction's approved diversion rate, a countywide diversion rate for 2006 was estimated to be 58 percent.

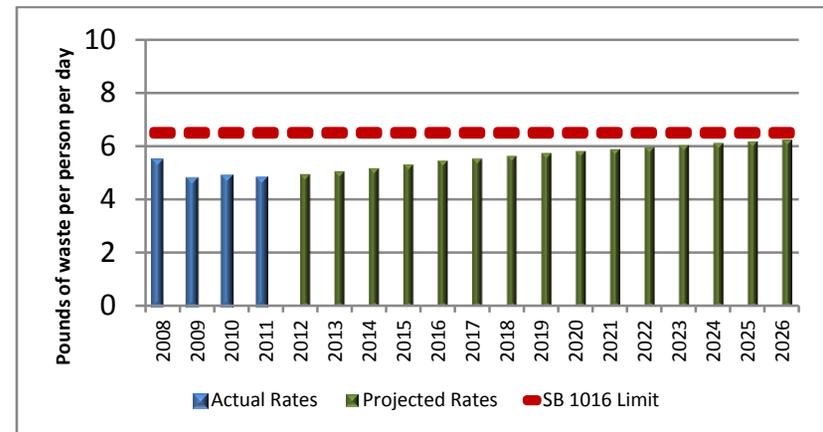
Under SB 1016, a target per capita disposal rate, which is equivalent to a 50-percent diversion rate, is calculated using an approved jurisdiction-specific average of per capita generation rates of years 2003 to 2006. To establish compliance with AB 939, each jurisdiction's per capita disposal rate is calculated for each reporting year and compared with their individual target rates.



Using projections of population, employment, and real taxable sales from the University of California, Los Angeles, it is estimated that in order to meet the per capita disposal requirements, jurisdictions in Los Angeles County would need to continue their diversion programs as well as other disposal reduction strategies.

Figure 5 shows the County meeting the AB 939 diversion mandate through the year 2026 provided that the County as a whole maintains a 55-percent diversion rate. Refer to **Appendix E-3** for detailed data.

Figure 5: Projection of Countywide Disposal Equivalent



Waste Disposal at In-County Facilities

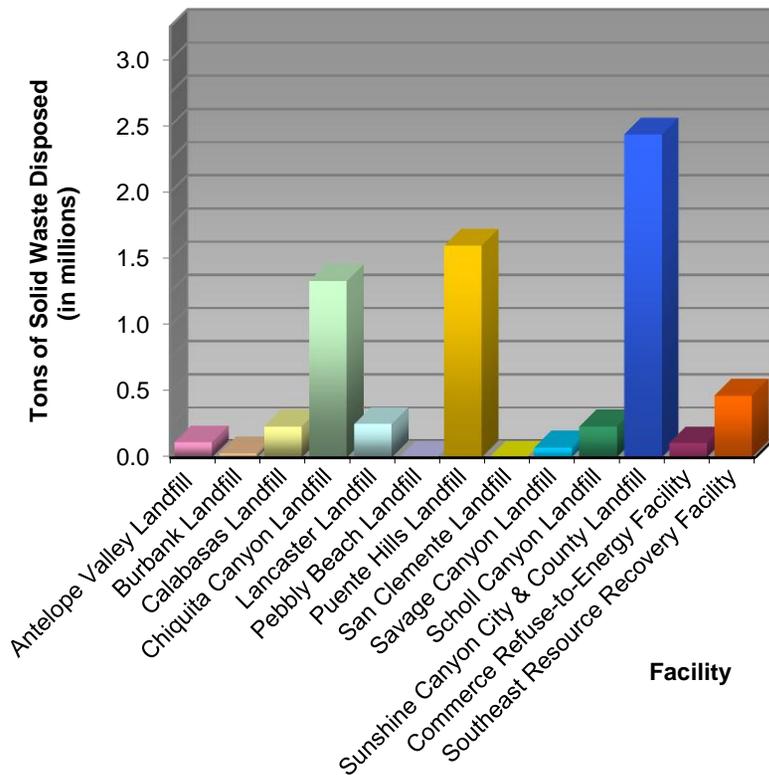
In addition to waste generated within Los Angeles County, Class III landfills, permitted inert waste landfills, and transformation facilities in the County also received 141,000 tons, or 452 tpd,

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

of waste from jurisdictions outside the County in 2011. **Figure 6** shows the total amount of solid waste disposed at each Class III landfill and transformation facility, including waste generated from within and outside the County. Refer to **Appendix E-2 Table 1** for detailed data.

Figure 6: Disposal Quantities by Facility in 2011



When waste is received at Class III landfills and transformation facilities, some of it is recycled for on-site use, such as ADC, and

some is sent off-site for recycling or processing. The remaining is landfilled or transformed into energy. If transformed, the residual ash is turned into ashcrete and used for winter deck and other beneficial uses at the Puente Hills Landfill. **Figure 7** quantitatively illustrates these activities. The various types of materials recycled or beneficially used on-site at Class III landfills are further broken down on **Figure 8**.

Figure 7: Solid Waste at In-County Disposal Facilities (tons)

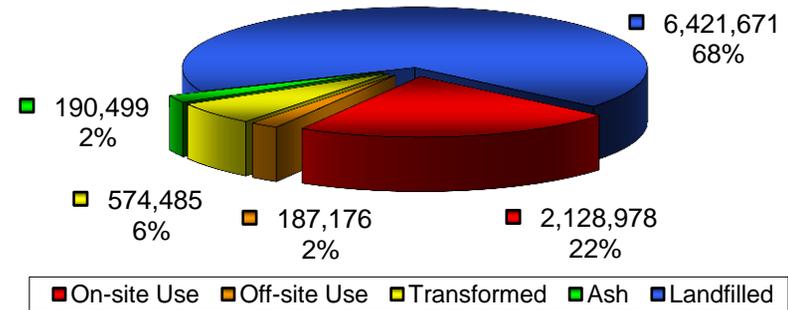
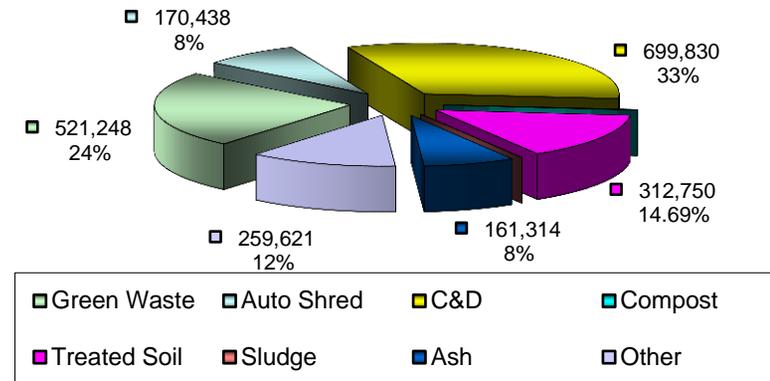


Figure 8: On-site Beneficial Use (tons)



2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

Figures 9 through 21 show the disposal at each in-County facility broken down by jurisdiction. Refer to Appendix E-5 for a map that shows the location of each facility.

Figure 9: Antelope Valley Landfill
 114,000 tons

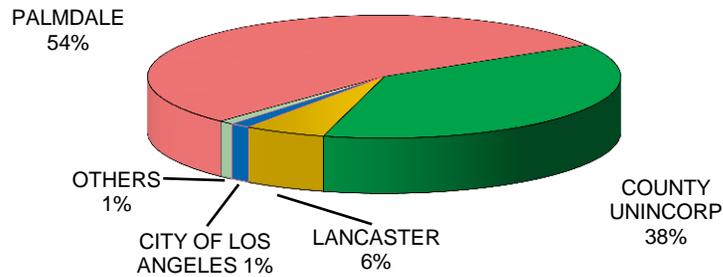


Figure 10: Burbank Landfill
 30,000 tons

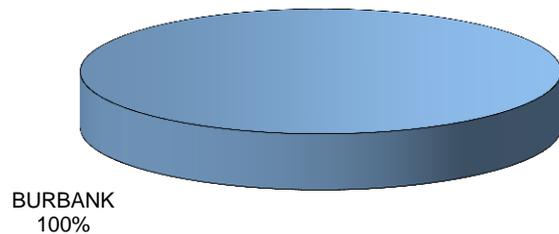


Figure 11: Calabasas Landfill
 243,000 tons

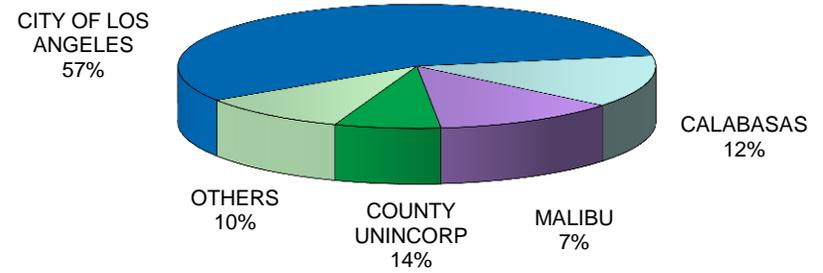


Figure 12: Chiquita Canyon Landfill
 1,330,000 tons

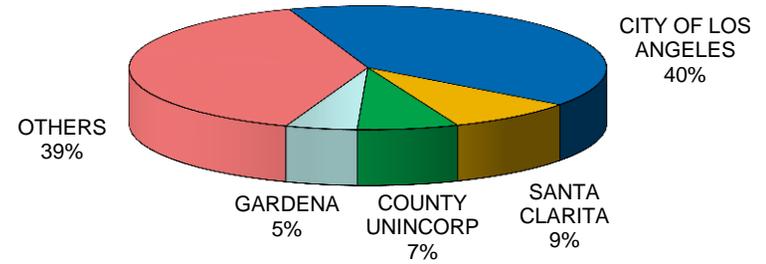
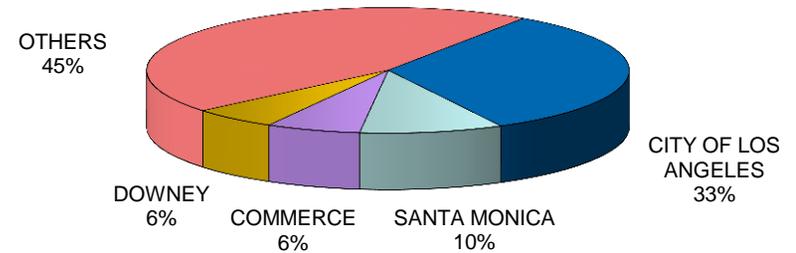


Figure 13: Commerce Refuse-to-Energy Facility
 108,000 tons



2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

Figure 14: Lancaster Landfill
252,000 tons

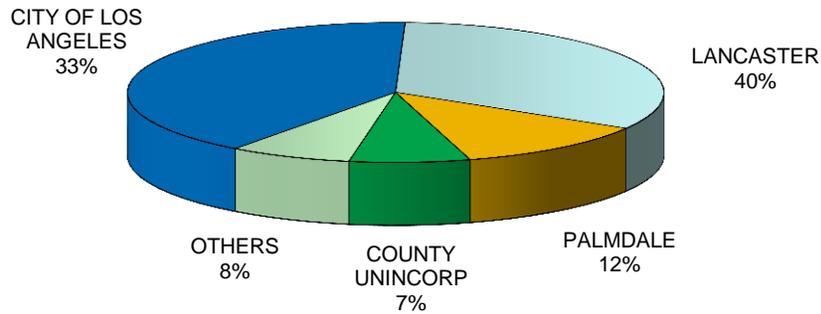


Figure 16: Puente Hills Landfill
1,596,000 tons

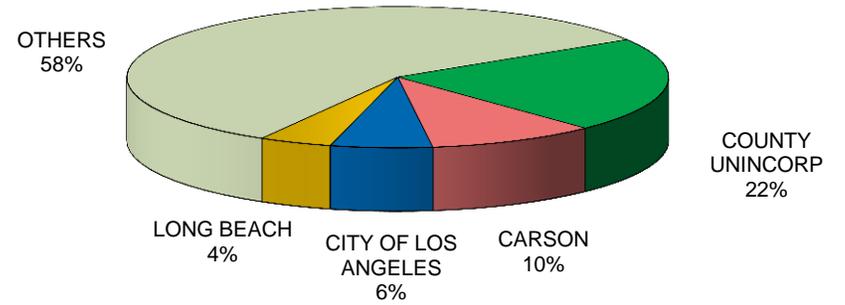


Figure 15: Pebbly Beach Landfill
2,500 tons

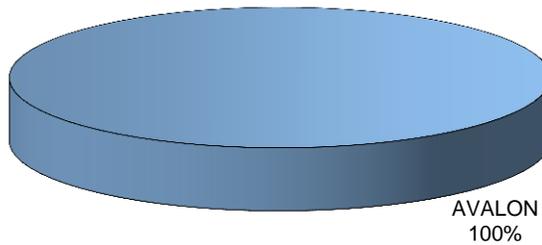
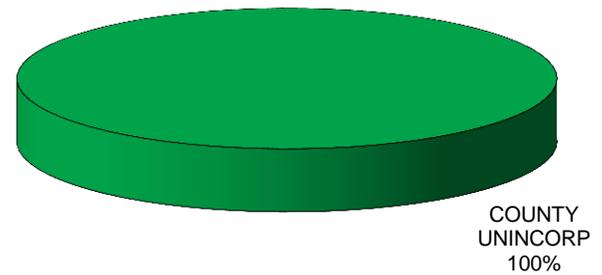


Figure 17: San Clemente Landfill
405 tons



2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

Figure 18: Savage Canyon Landfill
 75,000 tons

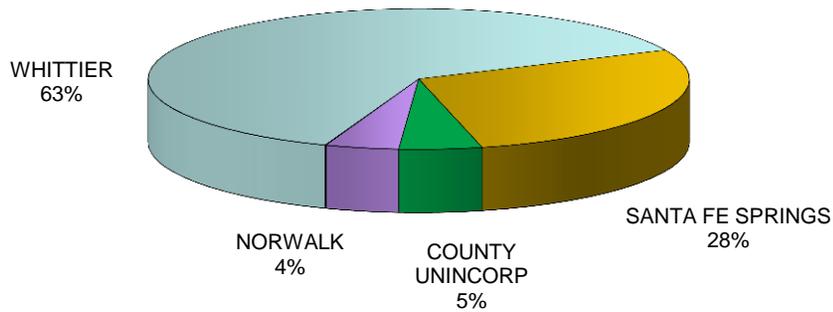


Figure 20: Southeast Resource Recovery Facility
 467,000 tons

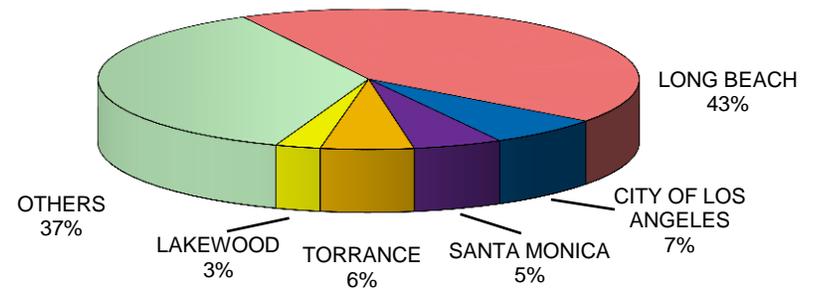


Figure 19: Scholl Canyon Landfill
 233,000 tons

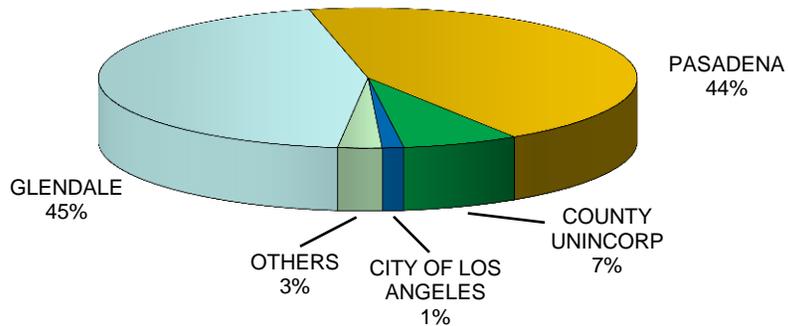
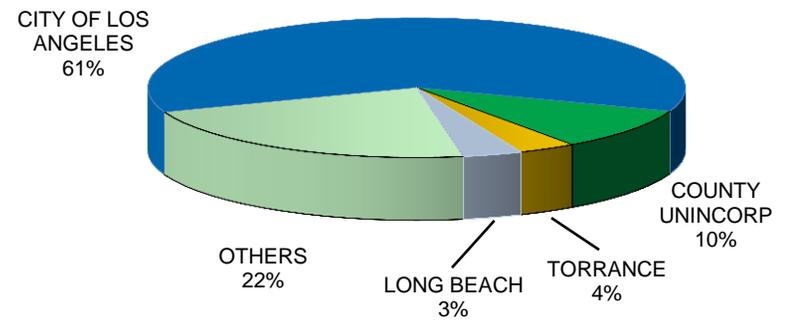


Figure 21: Sunshine Canyon City /County Landfill
 2,434,000 tons



2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

Remaining Disposal Capacity at End of 2011

Transformation Facilities

Presently, two transformation facilities operate in the County with a combined permitted average capacity of 2,069 tpd, which is equivalent to 645,600 tpy.

It is expected that these two facilities will continue to operate at their current permitted daily capacity during the planning period of 2011 through 2026. The owners and operators of these facilities indicate that there are no plans to increase the permitted daily capacity.

Class III Landfills

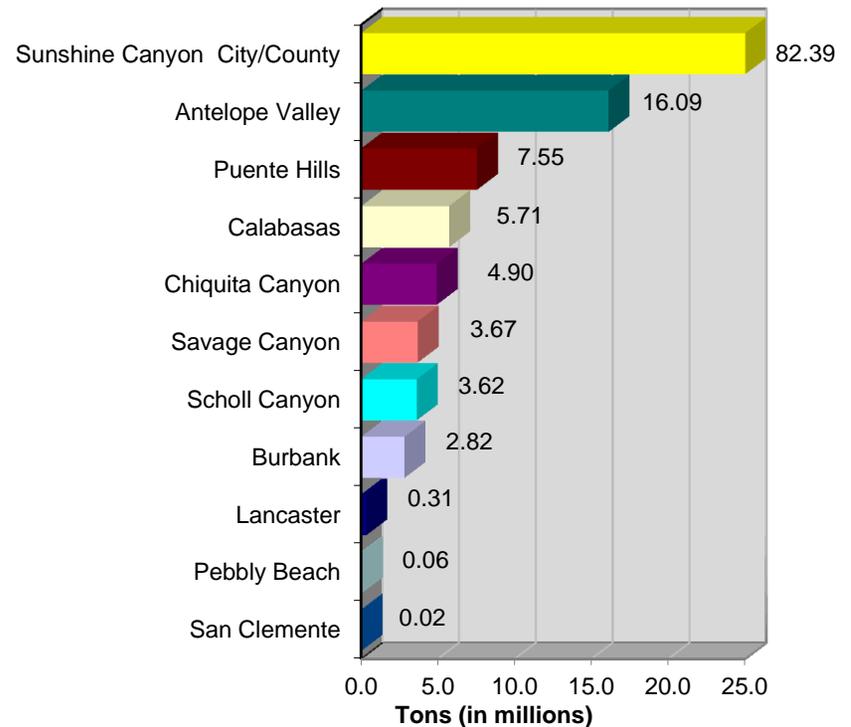
Public Works conducted a survey requesting landfill operators in the County to provide updates to their estimated remaining



disposal capacity. Based on the results of the survey and considering permit restrictions, the total remaining permitted Class III landfill capacity in the County is estimated at 127 million tons as of December 31, 2011.

The figure below shows a breakdown of each landfill's remaining capacity in million tons as of December 31, 2011. Refer to **Appendix E-2 Table 1** for detailed data.

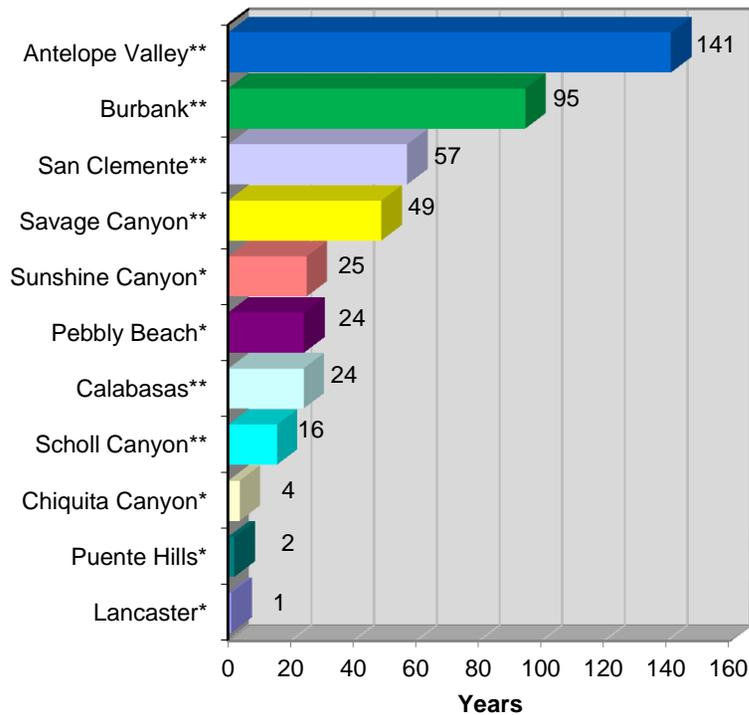
Figure 24: Class III Landfill Remaining Capacity



2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

When each landfill's average daily disposal and closure date, if specified in its permits, are accounted for, its lifespan is as shown in the following figure.

Figure 25: Class III Landfill Remaining Life



* Landfill remaining life based on land use permit restrictions as of December 31, 2011.

** Landfill Remaining life based on estimated design capacity as of December 31, 2011.

Permitted Inert Waste Landfill

There is one permitted Inert Waste Landfill that has a full solid waste facility permit (Azusa Land Reclamation) in Los Angeles County in 2011. The remaining capacity of this landfill is estimated at 64.2 million tons or 53.5 million cubic yards. Refer to **Appendix E-2 Table 1** for detailed data. Given the remaining permitted capacity and at the average disposal rate of 357 tpd in 2011, this capacity would be exhausted in 576 years.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Inert Debris Engineered Fill Operations

There are other Inert Waste Landfill operations which are under the State permit tier of Enforcement Agency Notification. These facilities are classified as Inert Debris Engineered Fill Operations (IDEFO). In 2006, CalRecycle reclassified Nu-Way Arrow Reclamation, Inc., Nu-Way Live Oak Reclamation, Inc. and Calmat Reliance Pit #2, and Peck Gravel Road Pit to an IDEFO. These sites and other IDEFOs handled nearly 2.3 million tons or approximately 1.9 million cubic yards of material in the County (**Refer to Appendix E-2 Table 2**).

Transfer and Processing Capacity

There are 45 permitted Large Volume Transfer/Processing and Direct Transfer Facilities, which are permitted to receive 100 tons of waste or more per operating day, and numerous facilities of smaller volume operating in the County. As local waste disposal capacity options diminish in the County, transfer and processing facilities operators are expected to ship waste to out-of-County landfills via truck or rail transport. Refer to **Appendix E-5** for a list of Large Volume Transfer and Processing facilities in the County.

On-going Efforts to Maximize Utilization of Existing Disposal Capacity

Over the last decade, the County has encouraged waste diversion and recycling activities at landfills in the County unincorporated areas through the land use permit process. The process incorporates a Waste Plan Conformance Agreement which requires a landfill operator to implement specified waste diversion and recycling programs as well as other activities on- and off-site to assist jurisdictions in the County in achieving the

mandates of AB 939. In addition, the Agreement contains provisions to encourage and assist residents in properly disposing of their wastes. These programs or activities may include:

Conservation of Capacity

- ❖ Maximize available fill capacity by improving compaction methods and diverting or reducing high-volume or low-density waste materials;
- ❖ Conduct waste characterization studies;

On-Site Reuse

- ❖ Utilize waste materials received and processed at the landfill, such as shredded green waste, as a supplement to daily, intermediate, and final cover;
- ❖ Use green waste for other beneficial uses, including composting;
- ❖ Salvage wood wastes for landscaping and erosion, weed, and fire break control;
- ❖ Salvage construction and demolition wastes for road construction, erosion control, and other uses;

Establishment of:

- ❖ Materials recovery operations or facilities;
- ❖ Used oil collection center;
- ❖ Drop-off or buy-back recycling center;

Activities to Encourage Proper Disposal

- ❖ Free disposal days;
- ❖ Waste tire processing;
- ❖ Christmas tree recycling;

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

- ❖ Acceptance of bulky items from residents free of charge;
- ❖ As appropriate, providing reduced rates to customers for source-separated materials which can be diverted or otherwise salvaged at the landfill;
- ❖ Public education activities;

Provide Funding for:

- ❖ Household hazardous and electronic waste collection events; and
- ❖ Research and development of alternative technologies;

Active Class III landfills that have a Waste Plan Conformance Agreement with the County include Chiquita Canyon, Lancaster, Puente Hills, and Sunshine Canyon City/County Landfills.

Together, these landfills handle over 85 percent of in-County Class III waste. It should be noted that due to the dynamic nature of solid waste management in the County, the provisions of the Waste Plan Conformance Agreement for each landfill are different and tailored to meet the specific needs of the communities serviced by the landfill.

Due to economic recession, increase in diversion rate, and advancements, such as improved methods in compaction techniques, the remaining capacity of existing landfills is not being depleted as quickly as previously projected, and therefore is anticipated to provide longer lifespan.



STRATEGY FOR MAINTAINING ADEQUATE DISPOSAL CAPACITY

This section will discuss how the County plans to maintain adequate solid waste disposal capacity for the next 15 years from 2011 to 2026. The discussion first evaluates whether the existing permitted disposal capacity in the County would be able to accommodate the solid waste generated that cannot be reduced, recycled, or reprocessed. However, as will be shown by the evaluation following, depending on existing infrastructure alone is not sufficient. As a solution, the discussion goes on to present several scenarios utilizing various options to manage the residual solid waste. Note that since the County currently has adequate permitted inert waste landfill capacity as discussed earlier in **Permitted Inert Waste Landfill** (page 26), inert waste landfills are not included in the discussion.

Definitions

Daily Disposal Demand – The amount of solid waste generated less the amount diverted by means of reuse, recycling, composting, or anaerobic digestion based on a 6-day-per-week operation at permitted solid waste disposal facilities.

Disposal Capacity Reserve – The amount by which the total Daily Available Capacity exceeds Daily Disposal Demand.

Disposal Capacity Shortfall – The amount by which Daily Disposal Demand exceeds the total Daily Available Capacity.

Daily Available Capacity – The amount of waste a permitted to be received at solid waste disposal facilities based on a 6-day-per-week operation in accordance with the terms, conditions, and watershed restrictions of the facility’s SWFP, land use permit, Waste Discharge Requirements, or any other permit regulating the operation, whichever is more restrictive.

Evaluation of Existing Disposal Infrastructure

Waste Generation Projections

Projections of solid waste generation during the planning period were made using the Adjustment Methodology developed by CalRecycle. The Methodology requires knowledge of the waste distribution by residential and non-residential sectors as well as future population, employment, and real taxable sales.

Considering each jurisdiction’s SRRE and last approved base generation year as of 2006, the average Countywide distribution by sector is as follows:

Residential Waste Generation = 27 percent of total waste generation

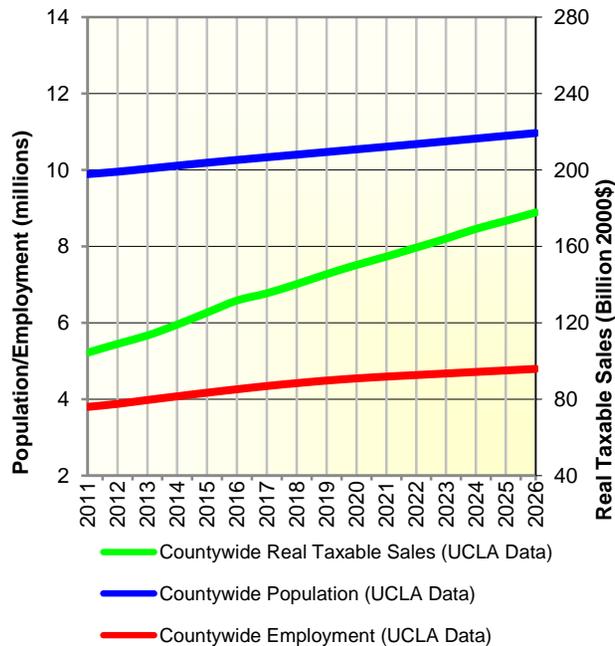
Non-Residential Waste Generation = 73 percent of total waste generation

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Population, employment, and real taxable sales projections are available from the State Department of Transportation and University of California, Los Angeles (UCLA) for each year of the planning period. The UCLA Long-Term Forecast, published in August 2011, was utilized since it focuses on the Los Angeles region as compared to the State Department of Transportation, which is Statewide and yields more general projections. Additionally, the UCLA forecast data is updated more frequently. The graph below shows the parameters utilized. The detailed data is also provided in **Appendix E-2 Table 4**.

Figure 26: Population, Employment, and Real Taxable Sales



Daily Disposal Demand Projections

The quantity of Daily Disposal Demand depends on the amount of solid waste that may be diverted. As noted in **Waste Generation** (page 19), a diversion rate of 55 percent will be conservatively assumed for analysis in this report. With this assumption, the amount of residual waste that requires disposal capacity will be 45 percent of the projected waste generation.

Transformation Facility Capacity

As explained earlier in **Remaining Disposal Capacity at End of 2011** (page 25), the two transformation facilities in the County are expected to provide up to 2,069 tpd of Daily Available Capacity. The capacity is projected during the planning period.

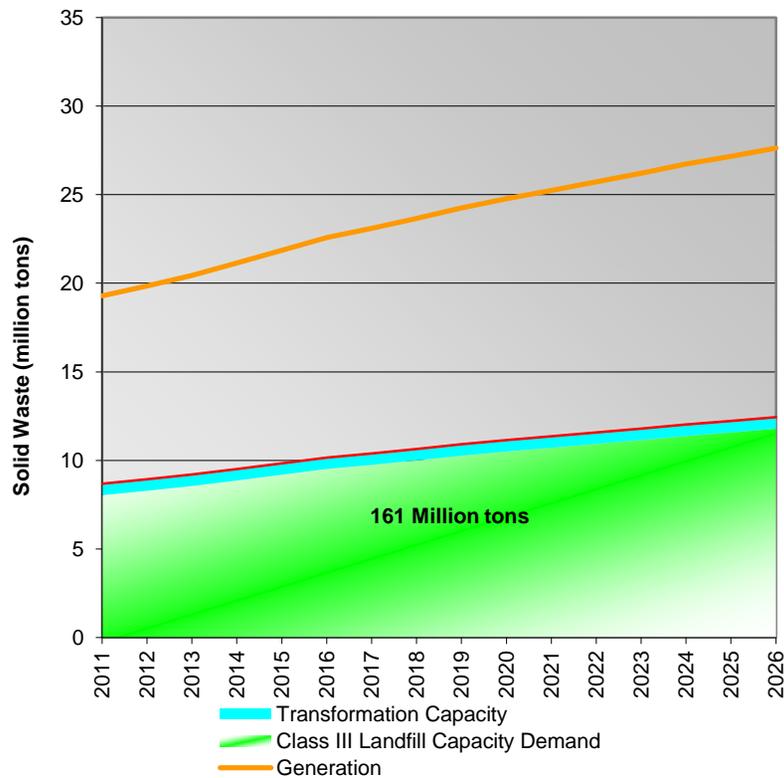
Class III Landfill Capacity Needed

Assuming no other options are available, such as exporting to out-of-County facilities or development of new alternative technologies, the County's Class III landfill disposal needs are determined after considering the available transformation capacity.

2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

The result of the evaluation is plotted in the graph below. The detailed data is also provided in **Appendix E-2 Table 5**.

Figure 27: Solid Waste Generation and Disposal Trend



The area in green illustrates the amount of Class III landfill capacity needed. By the end of year 2026, the cumulative need for Class III landfill capacity totals 161 million tons. However, as shown in **Remaining Disposal Capacity at End of 2011**

(page 25), the remaining capacity of all existing Class III landfills amounts to 127 million tons, which falls short of the disposal capacity needed through the planning period. Other constraints that may limit the accessibility of Class III landfill capacity include: washed boundaries, geographic barriers, weather, and natural disasters. In conclusion, further detailed analysis that incorporates capacity options in addition to existing in-County infrastructure as well as permit constraints is necessary to provide a more thorough evaluation.

Scenario Analysis

The scenario analysis utilizes the various capacity options currently available or may become available in the future to assist the County in meeting the Daily Disposal Demand. In addition to the existing disposal infrastructure considered above, the analysis will consider the following:

Existing in-County Class III Landfills and Transformation Facilities – The analyses take into account a facility’s permitted capacity, termination date, and washed restriction, if any.

Proposed Expansions of In-County Class III Landfills – Additional disposal capacity may be provided by proposed landfill expansions. Detailed discussion is provided in **Proposed Facility Expansions** (page 15).

Various Levels of Imports and Exports – Considering various levels of imported and exported waste from and to out-of-county jurisdictions. Existing facilities in Orange, Riverside, San Bernardino, and Ventura Counties are currently accepting

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

waste from the County. Future use of Mesquite Regional Landfill in Imperial County is also considered. Refer to **Out-of-County Disposal Facilities** (page 43) for more detail.

Alternative Technologies – Potential conversion technology facilities or other alternative technologies may be developed in the near future.

Increase in Diversion Rate – Potential increase in diversion rate affected by enhanced diversion programs by jurisdictions within the County.

Given all the various capacity options, the analysis evaluated nine potential scenarios during the 15-year planning period. The table below summarizes the differences between the scenarios.

For all nine scenarios, the projected waste generation and Daily Available Capacity from transformation facilities will remain unchanged from the analysis performed in **Evaluation of Existing Disposal Infrastructure** (page 29). Given the current diversion rates achieved by jurisdictions in the county, a conservative diversion rate of 55 percent will be applied, except for those scenarios that consider a higher diversion rate. The analysis will examine closely how much Daily Available Capacity from existing Class III landfills is expected to be utilized during

each year. The disposal rate will be based on the average disposal rate in 2011 (see **Disposal Analysis for 2011** on page 18) and its annual increase, will be proportional to the waste generation rate. No new landfills in the County are expected to be permitted during the planning period. In the case where the Daily Disposal Demand cannot be met, the analysis evaluates when a Disposal Capacity Shortfall is expected to occur. Next is a discussion on each of the scenarios.



2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

Scenario Comparison Table

	Existing Permitted In-County Class III Landfill Capacity	Current Available Out-of-County Disposal Capacity	Increase in Diversion Rate (up to 65 percent)	Utilization of Alternative Technology Facility Capacity (up to 2,300 tpd)	Proposed Expansions of in-County Class III Landfills	Increase In Available Out-of-County Disposal Capacity	Maximizing Diversion Rate (up to 75 percent)	Increase In Alternative Technology Facility Capacity (up to 5,000 tpd)	Full Utilization of Out-of-County Disposal Capacity
Scenario No. I (Status Quo Scenario)	●	●							
Scenario No. II Increase In Diversion Rate (Up to 65%)	●	●	●						
Scenario No. III Utilization of Alternative Technology Capacity (Up to 2,300 tpd)	●	●	●	●					
Scenario No. IV (In-County Class III Landfills Expansions with out-of-County Disposal Capacity)	●	●	●	●	●				
Scenario No. V (Increase In Available Out-of-County Disposal Capacity)	●	●	●	●	●	●			
Scenario No. VI Maximizing Diversion Rate (Up to 75%, Considering AB 341 goal)	●	●	●	●	●	●	●		
Scenario No. VII Increase In Alternative Technology Capacity (Up to 5,000 tpd)	●	●	●	●	●	●		●	
Scenario No. VIII Full Utilization of Out-of-County Disposal Capacity	●	●	●	●	●	●			●
Scenario No. IX (Best Case Scenario - All Solid Waste Management Options Considered Become Available)	●	●	●	●	●	●	●	●	●

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario 1 - (Status Quo)

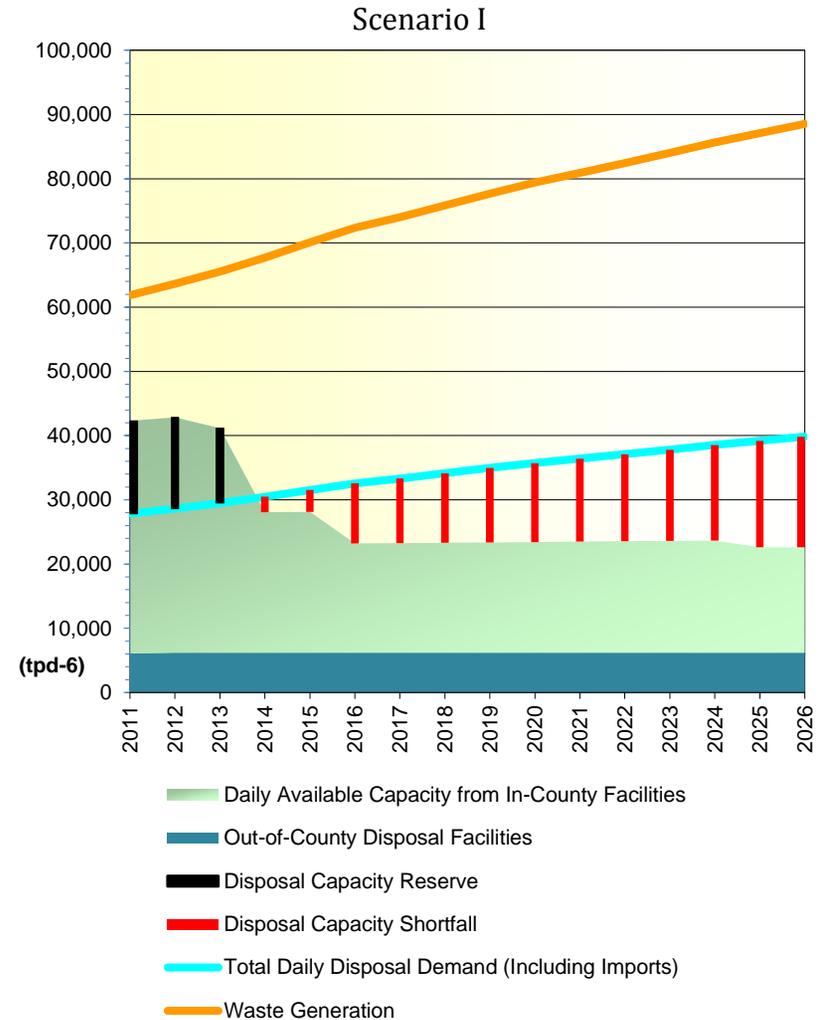
- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity

Scenario I considers the use of existing disposal infrastructure and utilizes up to 6,200 tpd of out-of-County landfill capacity. The scenario assumes no expansions of existing landfills, no new landfills, and no additional capacity from alternative technologies. The following assumptions are made with respect to imports and exports:

Imports – Based on the average rate of 456 tpd for 2011, waste import quantities are projected to be 500 tpd for years 2012 and 2013 and 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and it is assumed to remain at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur starting in 2014 as shown in the figure to the right. The shortfall would continue through the end of the planning period, when it is estimated to reach 17,900 tpd. Since the shortfall occurs prior to 2026, Scenario I shows that the status quo would not be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario II - (Increase In Diversion Rate- up to 65%)

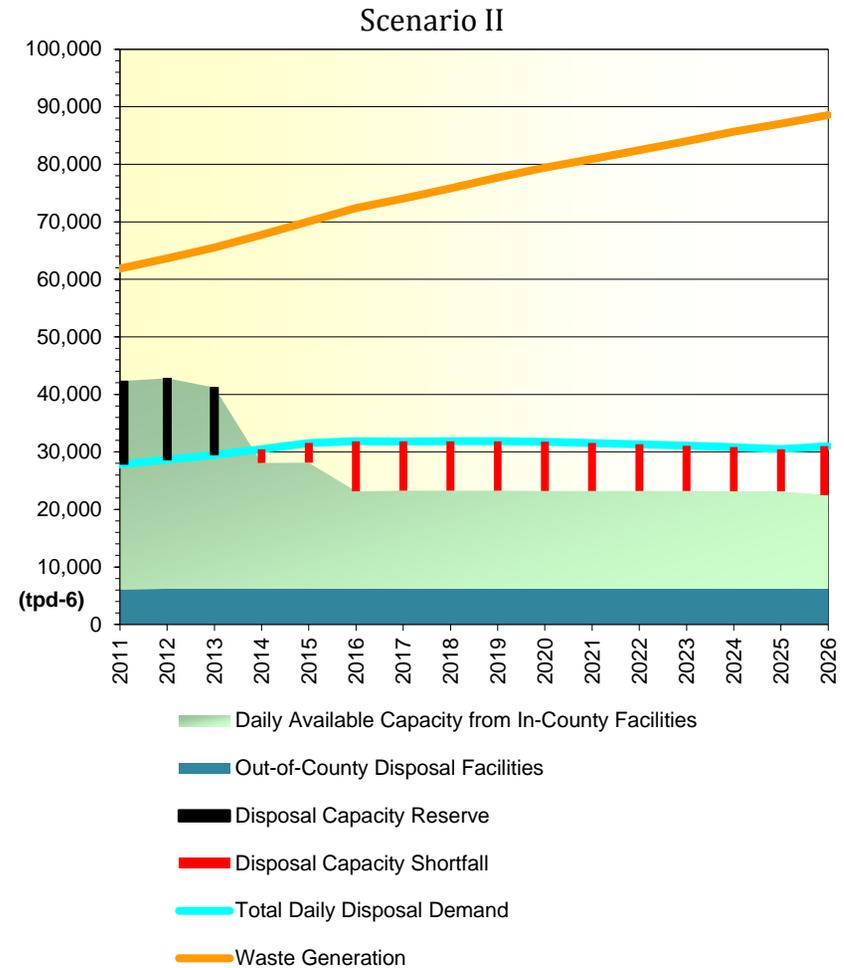
- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)

Scenario II assumes that all solid waste disposed would be managed by existing disposal infrastructure and the current available Out-of-County disposal capacity. The scenario also assumes an increase in diversion of up to 65%.

Imports – Based on the average rate of 456 tpd for 2011, waste import quantities are projected to be 500 tpd for years 2012 and 2013 and 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur starting in 2014 as shown in the figure. The shortfall would continue through the end of the planning period, when it is estimated to reach 9,200 tpd. Since the shortfall occurs prior to the year 2026, Scenario II shows that development of all in-County proposed expansions alone would not be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario III - (Utilization of Alternative Technology Capacity- up to 2,300 tpd)

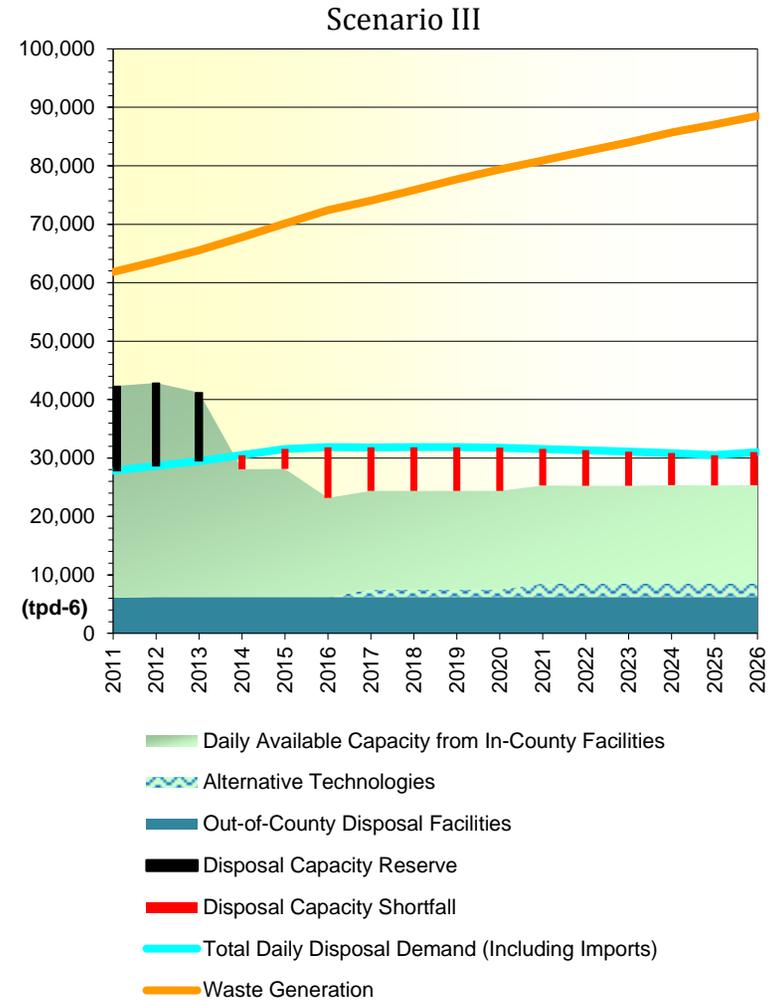
- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)

Scenario III assumes that by 2014, alternative technology facilities for residential waste would become operational in the County. The permitted capacity of these facilities is estimated to start at 1,300 tpd in 2017 and increase to 2,300 tpd in 2021.

Imports – Based on the average rate of 456 tpd for 2011, waste import quantities are projected to be 500 tpd for years 2012 and 2013 and 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur starting in 2014 and go through the planning period with an increase as high as 9,400 tpd in 2016. Therefore, the increased alternative technology capacity of up to 2,300 tpd would not be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

Scenario IV - (In-County Class III Landfill Expansions with Out-of-County Disposal Capacity)

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

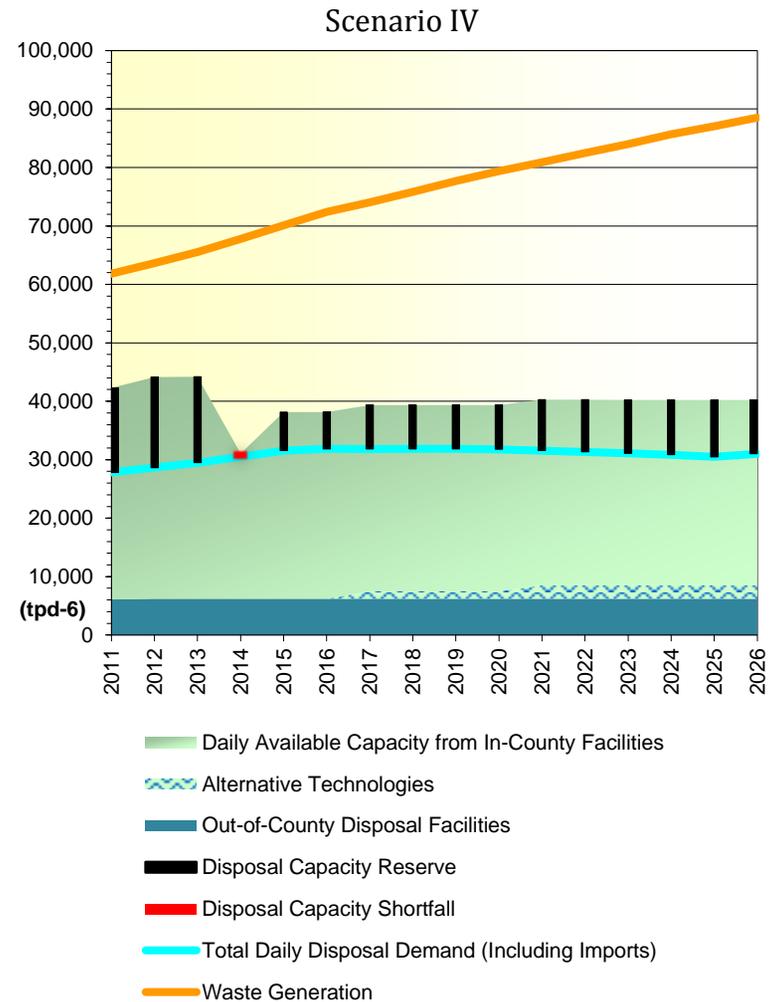
Along with the other assumptions mentioned in the previous scenarios, Scenario IV fully utilizes the capacity from existing and proposed expansions of in-County disposal infrastructure. Scenario IV also utilized Out-of-County disposal capacity of up to 6,200 tpd.

Imports – Based on the average rate of 456 tpd for 2011, waste import quantities are projected to be 500 tpd for years 2012 and 2013 and 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would be averted during the 15-year planning period with the exception of a short-term shortfall of 116 tpd in 2014. Therefore, development of proposed expansions, alternative technologies, and exporting up to 6,200 tpd would be able to

meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario V - (Increase In Available Out-of-County Disposal Capacity)

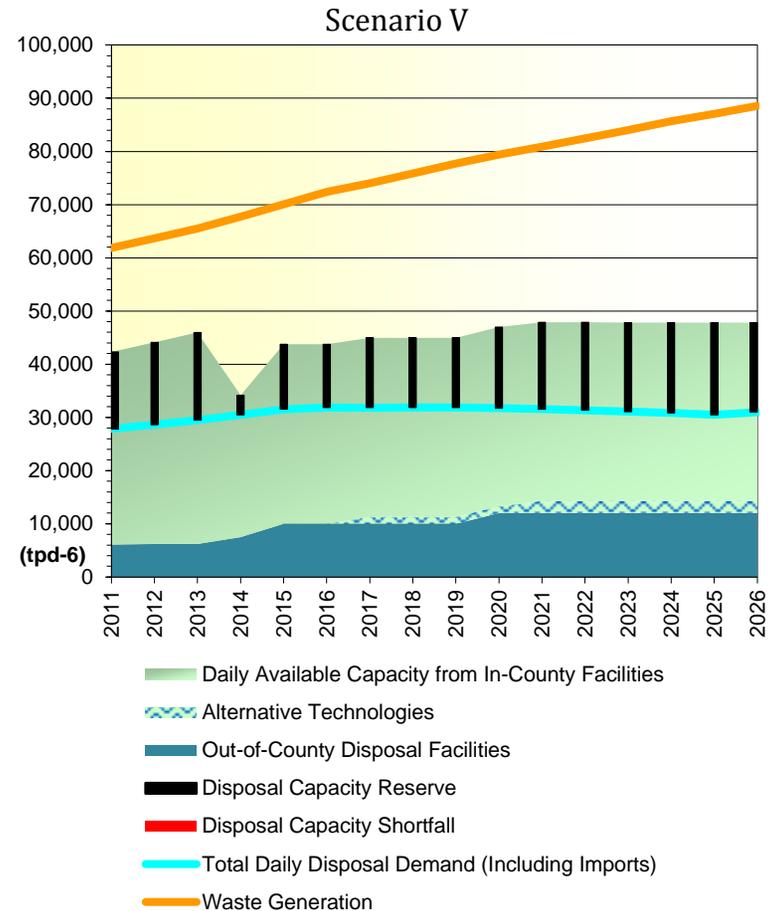
- Existing In-County Class III Landfills and Transformation Facilities
- Increase In Available Out-of-County Disposal Capacity (up to 12,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario V uses the same assumptions as Scenario IV, with the exception of assuming an increase in available Out-of-County Disposal Capacity. The following assumptions are made with respect to imports and exports:

Imports – Based on the rate of 456 tpd for 2011, waste import quantities are projected at 500 tpd for years 2012 and 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and will be assumed to gradually increase up to 12,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would be averted during the 15-year planning period. Therefore, development of proposed expansions and exporting up to 12,000 tpd would be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario VI - (Maximizing Diversion Rate- up to 75%, Considering AB 341 Goal)

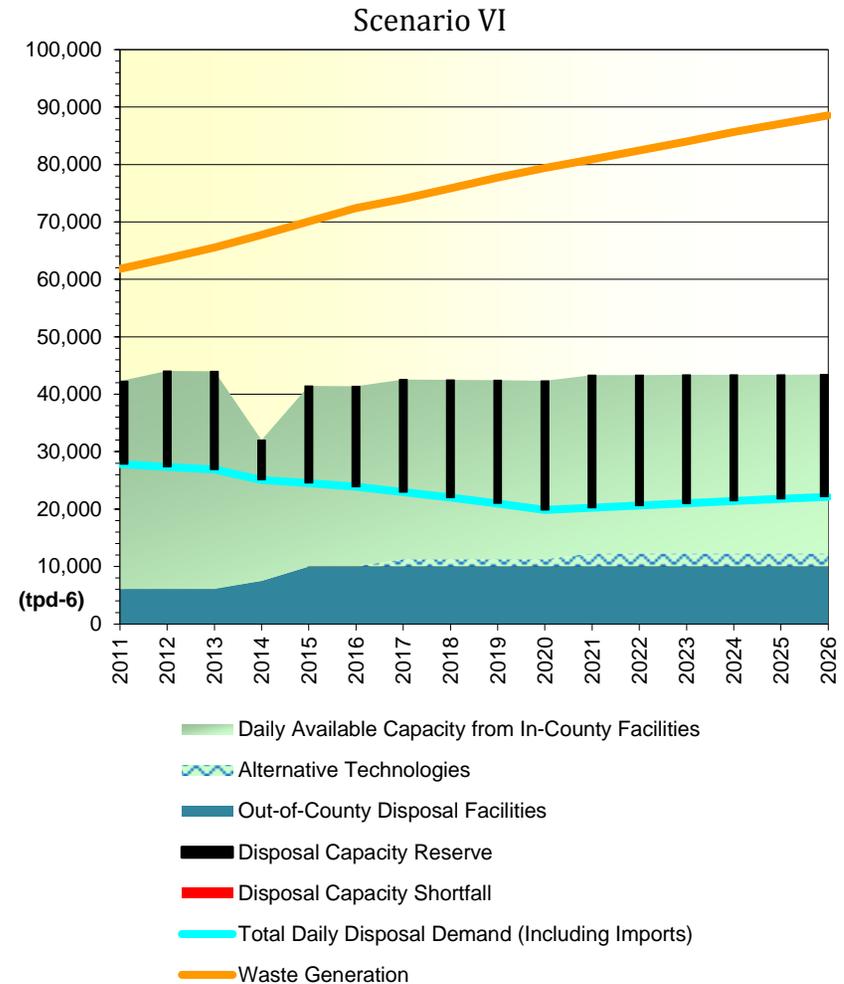
- Existing In-County Class III Landfills and Transformation Facilities
- Increase In Available Out-of-County Disposal Capacity (up to 10,000 tpd)
- Maximizing Diversion Rate (up to 75%)
- Increase In Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario VI is similar to Scenario V, with the exception of the diversion rate, which is assumed to increase each year beginning in 2011 until it reaches 75 percent in 2020. It will remain at 75 percent through 2026. This scenario maximizes the diversion rate by complying with the AB 341 goal.

Imports – Based on the rate of 456 tpd for 2011, waste import quantities are projected at 500 tpd for years 2012 and 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and will be assumed to gradually increase up to 10,000 tpd during the planning period.

Based on this analysis, a Disposal Capacity Shortfall would be averted during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario VII - (Increase In Alternative Technology Capacity- up to 5,000 tpd)

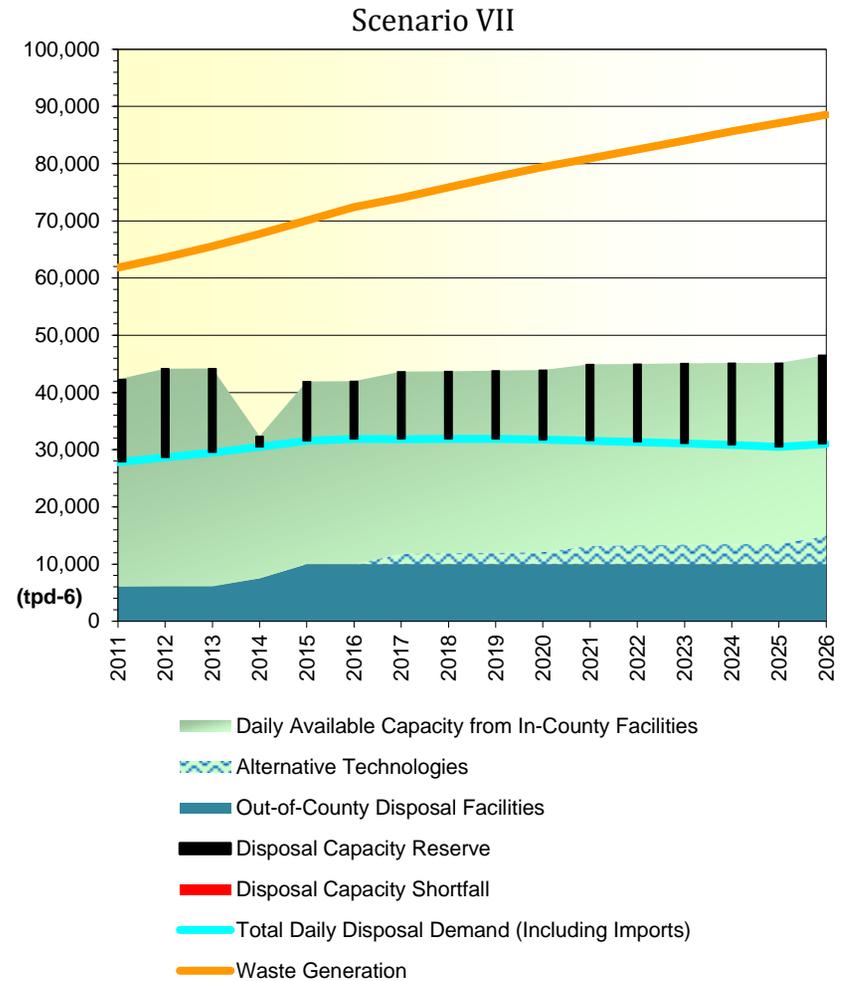
- Existing In-County Class III Landfills and Transformation Facilities
- Increase In Available Out-of-County Disposal Capacity (up to 10,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Increase In Alternative Technology Capacity (up to 5,000 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario VII is similar to Scenario V, with the exception of the increased alternative technology capacity of up to 5,000 tpd.

Imports – Based on the rate of 456 tpd for 2011, waste import quantities are projected at 500 tpd for years 2012 and 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and will be assumed to gradually increase up to 10,000 tpd during the planning period.

Based on this analysis, a Disposal Capacity Shortfall would be averted during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario VIII - (Full Utilization of Out-of-County Disposal Capacity)

- Existing In-County Class III Landfills and Transformation Facilities
- Full Utilization of Out-of-County Disposal Capacity (up to 19,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

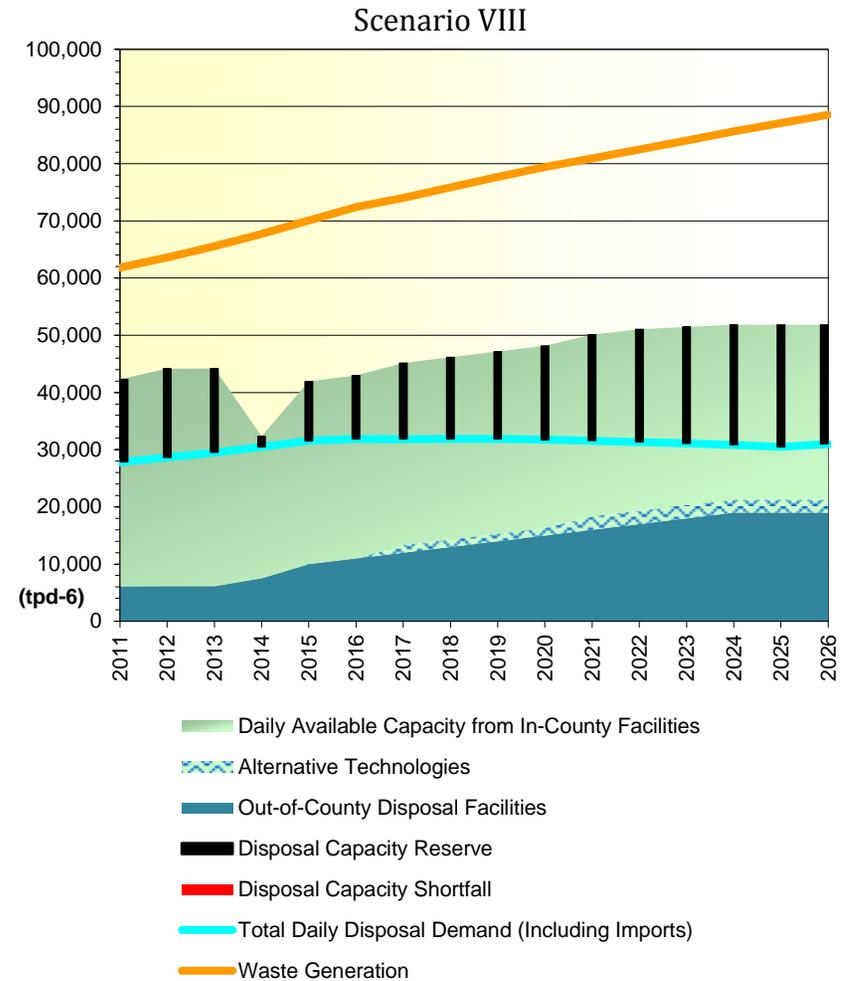
Scenario VIII is similar to Scenario V, with the exception of the full utilization of Out-of-County Disposal Capacity.

Imports – Based on the rate of 456 tpd for 2011, waste import quantities are projected at 500 tpd for years 2012 and 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and will be assumed to gradually increase up to 19,000 tpd during the planning period.

Based on this analysis, a Disposal Capacity Shortfall would be averted during the 15-year planning period. Refer to

Appendix E-4 for detailed data.



2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Scenario IX - (Best Case)

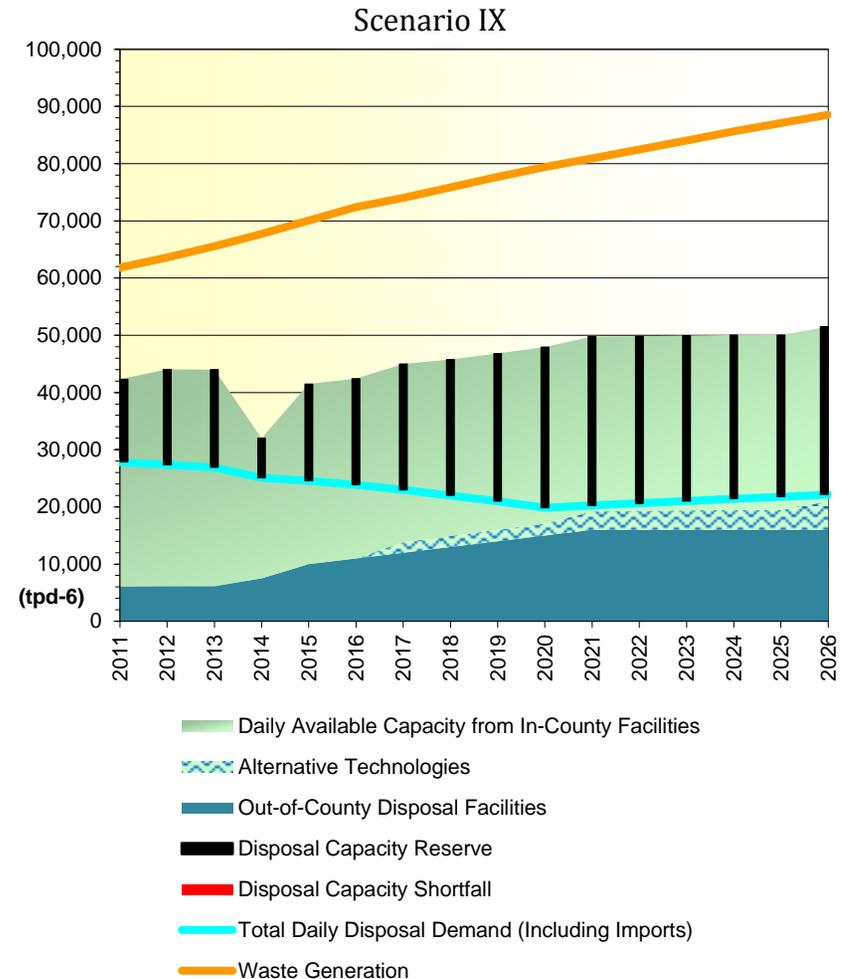
- Existing In-County Class III Landfills and Transformation Facilities
- Utilization of Out-of-County Disposal Capacity (up to 19,000 tpd)
- Maximizing Diversion Rate (up to 75%)
- Increase In Alternative Technology Capacity (up to 5,000 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario IX includes all solid waste management options mentioned in all of the previous scenarios.

Imports – Based on the rate of 456 tpd for 2011, waste import quantities are projected at 500 tpd for years 2012 and 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported out-of-County in 2011 was approximately 6,092 tpd and will be assumed to gradually increase up to 16,000 tpd during the planning period.

Based on this analysis, a Disposal Capacity Shortfall would be averted during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

Out-of-County Disposal Facilities

The scenario analysis considers the availability or potential availability of these out-of County disposal facilities:

El Sobrante Landfill, Riverside County – It has a remaining capacity of 151 million tons and an expected design lifespan of about 33 years as of January 1, 2012. It is permitted to receive 16,054 tpd of waste for disposal. In 2011, the landfill received an average of 7,019 tpd, of which 2,160 tpd were imported from Los Angeles County. It is assumed that the landfill could receive up to 4,000 tpd from Los Angeles County during the planning period.

Frank R. Bowerman Sanitary Landfill, Olinda Alpha Sanitary Landfill, and Prima Deshecha Sanitary Landfill, Orange County – Each of these landfills received 1,500 tpd from Los Angeles County in 2011. Orange County currently has waste importation agreements with various entities in Los Angeles County. It is assumed that these landfills could collectively receive up to 4,500 tpd from Los Angeles County through 2015.

Simi Valley Landfill & Recycling Center, Ventura County – The Landfill is permitted to receive a maximum of 3,000 tpd, of which 850 tons came from Los Angeles County in 2011. It is assumed that the landfill could receive up to 3,000 tpd from Los Angeles County during the planning period.

Mesquite Regional Landfill, Imperial County – The Sanitation Districts acquired the landfill in 2002 and completed construction of all infrastructures on December 24, 2008. The landfill is permitted to accept up to 20,000 tpd with a total disposal capacity of 582 million tons, which is equivalent to a lifespan of nearly 100 years. It is assumed that the Landfill could receive up to 12,000 tpd from Los Angeles County during the planning period.



Eagle Mountain Landfill, Riverside County - Eagle Mountain Landfill, owned by Kaiser Eagle Mountain, LL, is located in Riverside County. It is permitted to accept 10,000 tpd for the first 10 years, with the option of increasing the daily limit to 20,000 tpd after a review of environmental performance. Its permitted capacity of 460 million tons and total capacity of 708 million tons would provide an approximate lifespan of 100 years. Due in part to a pending Federal litigation and bankruptcy filing by the landfill developer, the Sanitation Districts has not closed escrow on the purchase of the Eagle Mountain Landfill.

These out-of-County landfills, together with Mid-Valley Sanitary Landfill in San Bernardino County and Avenal Landfill in King's County, could potentially handle up to approximately 24,350 tpd of waste from Los Angeles County. Refer to **Appendix E-2 Table 3** for more detailed data.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Conclusion

The scenario analysis discussed earlier assessed the County's ability to meet the Daily Disposal Demand under 9 scenarios. Under *Scenario I Status Quo*, without expanding existing landfills in the County, available disposal capacity would be inadequate to meet the Daily Disposal Demand of all 88 cities and the unincorporated County areas.



Scenario II: Increase In Diversion Rate of up to 65% by 2025 shows that available disposal capacity would still be inadequate to meet the Daily Disposal Demand. Considering existing in-County landfill disposal capacity and utilization of up to 6,200 tpd of out-of-County disposal capacity, *Scenario III: Utilization of Alternative Technology Up to 2,300 tpd by 2021* shows a shortfall would still be experienced beginning 2014. This demonstrates that jurisdictions in Los Angeles County would need to pursue additional strategies to meet the needs of residents and businesses through the 15-year planning period.

Scenario IV: In-County Class III Landfill Expansions with Out-of-County Disposal Capacity assesses the effects of expanding existing Class III in-County landfills with the current available out-of-County disposal capacity. Based on this assumption, a disposal shortfall would not occur during the planning period, with the exception of 2014. Scenarios V through IX assess the effects of a multi-pronged strategies, including maximizing the Countywide diversion rate up to 75 percent by 2020, consistent with the State's recycling goal; increasing alternative technology capacity up to 5,000 tpd by 2026; and the full utilization of out-of-County disposal capacity of up to 19,000 tpd by 2024.

Through various combinations of these options, Scenarios IV through IX demonstrate that the jurisdictions in Los Angeles County would be able to meet the disposal needs through the 15-year planning period. In conclusion, in order to avert a disposal shortfall, jurisdictions in Los Angeles County must continue to pursue all of the following strategies:

- ❖ **Expand Existing Landfills** – Expanded landfill capacity is necessary, provided it can be done in a technically feasible and environmentally safe manner.
- ❖ **Study, Promote, and Develop Conversion Technologies** – Development of commercial-scale state-of-the-art conversion technologies, as an alternative to landfilling, appears within reach. Jurisdictions must invest and actively participate in the research, promotion, and development of alternative technology facilities. Actions that may be taken by jurisdictions include:

2011 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

- Supporting legislation that places these facilities higher than landfilling in the waste management hierarchy.
 - Entering into waste commitment agreements.
 - Establishing partnerships with facilities and technology vendors.
- ❖ **Expand Transfer and Processing Infrastructure** – Development of additional in-County solid waste management infrastructure, such as transfer/processing, composting, and anaerobic digestion facilities, to assist jurisdictions in achieving higher levels of diversion and to facilitate transport to out-of-County landfills.
- ❖ **Develop a Waste-by-Rail System** – Currently, nearly all solid waste in Los Angeles County is transported to disposal sites in the metropolitan area by truck. However, as public opposition to siting new or expanding existing disposal facilities near urban areas has grown, sites farther from the Los Angeles Basin have become more desirable, despite the costs associated with longer transport distances. For some sites, such as the Mesquite Regional Landfill in Imperial County which is 210 miles from downtown Los Angeles, rail transport is an efficient means to transport solid waste to remote disposal sites. Transitioning to remote disposal of solid waste that involves rail transport requires new infrastructure and is currently being developed by the Sanitation Districts. The Waste-by-Rail system will provide long-term disposal capacity to replace local landfills as they reach capacity and close. The starting point of the Waste-by-Rail System is the Puente Hills Intermodal Facility (PHIMF), located near the Puente Hills Materials Recovery

Facility. Residual waste from materials recovery facilities and transfer stations located throughout the County will be loaded onto rail carts at the PHIMF, then transported via rail to the Mesquite Regional Landfill for disposal.

- ❖ **Maximize Waste Reduction and Recycling** – A steady increase in the Countywide diversion rate could significantly reduce the Daily Disposal Demand, extend landfill life, and assure that Los Angeles County will be able to meet the disposal needs of its residents and businesses.

All jurisdictions are strongly encouraged to continue to expand and enhance in programs to maximize Diversion. It should be noted that future conditions considered in this report are projections, and may change based on factors such as decisions made by the 89 jurisdictions or their waste management service providers and other conditions such as changes in regulatory requirements, disposal rates, fuel costs, and traffic congestion.

Nevertheless, the preceding scenario analysis provides a useful tool to assess the ability of jurisdictions in Los Angeles County to meet the disposal needs of their residents and businesses under various conditions. Given that solid waste disposal is an essential public service, it must be provided without interruption in order to protect public health and safety as well as the environment. Accordingly, major concerted actions must continue to be taken by jurisdictions towards expanding and enhancing waste reduction and recycling programs, and implementing prudent solid waste management strategies.

JURISDICTION/REGIONAL AGENCY CONTACT

Primary Contact

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

Phone: (626) 458-3500
Fax: (626) 458-3569
E-Mail: pproano@dpw.lacounty.gov

Mailing Address

County of Los Angeles Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, CA 91802-1460

Secondary Contact

BAHMAN HAJIALIAKBAR
Assistant Division Engineer
Environmental Programs Division

Phone: (626) 458-3502
Fax: (626) 458-3569
E-Mail: bhaji@dpw.lacounty.gov

CARLOS RUIZ
Assistant Division Engineer
Environmental Programs Division

Phone: (626) 458-3501
Fax: (626) 458-3569
E-Mail: caruiz@dpw.lacounty.gov

Appendix E-1 Solid Waste Facility Fact Sheets

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Antelope Valley Recycling & Disposal Facility

1. FACILITY INFORMATION

Owner: Waste Management of California, Inc.

Operator: Waste Management of California, Inc.

Address: 1200 West City Ranch Road, Palmdale 93551

Operating Days: Monday-Saturday

SWFP No: 19-AA-5624

SWFP Issue Date: 11/16/2011

Last 5-year Review Date: 09/28/2011

5-year Review Due Date: 11/16/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	[16,093,000 tons]	21,174,000 cubic yards
Estimated Remaining Life:	141 years (based on average daily disposal of 365 tpd, 312 days per year)	
In-Place Density:	0.76 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	1,800 tons	[2,368 cubic yards]
Yearly Equivalent:	[561,600 tons]	[738,947 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	365 tons	[480 cubic yards]
---------------	----------	-------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-12	Effective: 06/21/2011	Expiration: Completion of Project
--------------------------	------------------------------	--

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-95-119A2	Effective: 10/10/2001
------------------------------	------------------------------

7. FOC GRANT DATE – November 17, 2011

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - No plans at this time

10. RESTRICTIONS - There is no wasteshed or restriction on origin of waste.

11. REMARKS/STATUS - The City of Palmdale approved the expansion of Antelope Valley Landfill, which consolidates Unit 1 and Unit 2, on June 9, 2011. The expansion resulted in an additional 8.96 million tons of capacity and added approximately 8 years of life to the landfill at the maximum permitted rate of disposal.

Notes: 1 - Calculated or assumed quantities are shown in brackets.

Burbank Landfill

1. FACILITY INFORMATION

Owner: City of Burbank

Operator: City of Burbank

Address: 3000 Bel Aire Drive, Burbank, CA 91504

Operating Days: Monday-Friday

SWFP No.: 19-AA-0040

SWFP Issue Date: 12/09/1988

Last 5-year Review Date: 02/07/2011

5-year Review Due Date: 02/07/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	[2,818,000 tons]	5,124,000 cubic yards
Estimated Remaining Life:	95 years (based on average daily disposal of 95 tpd, 312 days per year)	
In-Place Density:	0.55 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	240 tons	[436 cubic yards]
Weekly:	[1,200 tons]	[2,282 cubic yards]
Yearly Equivalent:	[74,880 tons]	[136,145 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	95 tons	[173 cubic yards]
---------------	---------	-------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 2000-16

Issued: November, 2000

6. WASTE DISCHARGE REQUIREMENTS

File No.: 73-35

File No.: 72-035

File No.: R4-2002

File No.: 88-101

File No.: 93-062

Order No.: R4-2002-0154

File No.: R4-2006-0007

Issue Date: 10/09/1993

7. FOC GRANT DATE – 12/18/1986

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Irrigated open space.

10. RESTRICTIONS - Origin of waste limited to the City of Burbank and is not open to the public.

11. REMARKS/STATUS - Limited to use by City of Burbank's crews only.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Calabasas Landfill

1. FACILITY INFORMATION

Owner: County of Los Angeles

Operator: County Sanitation Districts of Los Angeles County

Address: 5300 Lost Hills Road, Agoura, CA 91301

Operating Days: Monday-Saturday

SWFP No.: 19-AA-0056

SWFP Issue Date: 08/05/2002

Last 5-year Review Date: 08/11/2009

5-year Review Due Date: 08/11/2014

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	5,712,000 tons	12,780,000 cubic yards
Estimated Remaining Life:	24 years (based on average daily disposal of 779 tpd, 312 days per year)	
In-Place Density:	0.447 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,500 tons	[7,830 cubic yards]
Weekly:	[21,000 tons]	[46,980 cubic yards]
Yearly Equivalent:	[1,092,000 tons]	[2,442,953 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	779 tons	[1,743 cubic yards]
---------------	----------	---------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 5022-(5) **Issued:** 08/08/1972

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 89-053 **Issued:** 07/05/2000
Order No.: 93-062
Order No.: 00-077

7. FOC GRANT DATE – None

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - Origin of waste is limited to that generated in the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003. Landfill does not accept hazardous materials.

11. REMARKS/STATUS - Limited to the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Chiquita Canyon Landfill

1. FACILITY INFORMATION

Owner: Chiquita Canyon, LLC, a subsidiary of
Waste Connections, Inc.

Operator: Waste Connections Inc.

Address: 29201 Henry Mayo Drive, Valencia 91355

SWFP No.: 19-AA-0052

Last 5-year Review Date: 12/01/06

Operating Days: Monday-Saturday

SWFP Issue Date: 07/07/08

5-year Review Due Date: 12/01/11

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	4,900,000 tons	[6,600,000 cubic yards]
Estimated Remaining Life:	4 years (based on average daily disposal of 4,264 tpd, 312 days per year)	
In-Place Density:	0.743 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	6,000 tons	[8,075 cubic yards]
Yearly Equivalent:	[1,560,000 tons]	[2,099,596 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	4,264 tons	[5,739 cubic yards]
---------------	------------	---------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 89-081(5)

Issued: 05/20/1997

Expiration: 05/24/2019

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 98-086

Effective: 11/02/1998;

Order No.: 93-062

Effective: 09/27/1993, amended by:

Order No.: R4-2006-0007

Effective: 01/19/2006;

Order No.: R4-2011-0052

Effective: 03/03/2011

7. FOC GRANT DATE - February 19, 1998

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - Landfill cannot accept biosolids (water and wastewater sludge). There is no wasteshed restriction on origin of waste.

11. REMARKS/STATUS - On December 5, 2008, Republic Services, Inc. merged with Allied Waste Industries, Inc. Due to the merger, Republic Services must divest Chiquita Canyon Landfill. On February 6, 2009, Republic Services and Waste Connections signed a definitive agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Chiquita Canyon Landfill Expansion

1. **FACILITY TYPE** - Class III landfill
2. **OWNER/OPERATOR** – Chiquita Canyon, LLC, a subsidiary of Waste Connections, Inc.
3. **LOCATION** - 29201 Henry Mayo Drive, Valencia 91355 (Los Angeles County Unincorporated Area)
4. **SIZE**

Increase in Proposed Disposal Area:	143 acres	(Total 257 acres)
Increase in Total Acreage of Site:	0 acres	(Total 592 acres)
Increase in Vertical Elevation:	110 feet	
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	12,000 tons	[16,086 cubic yards]
Weekly:	60,000 tons	
Yearly Equivalent:	[3,744,000 tons]	[5,018,767 cubic yards]
Additional Facility Capacity:	[35,062,000 tons]	47,000,000 cubic yards
In-Place Density:	0.746 tons/cubic yard	
6. **LAND USE/CONDITIONAL USE PERMIT** - Existing permit issued May 9, 1997 will expire on November 24, 2019.
7. **LIFE EXPECTANCY** – An additional of 26 years based on 2011 average daily disposal of 4,264 tpd or 9 years based on the maximum permitted rate of disposal of 12,000 tpd.
8. **EXPANSION OPTIONS** - Proposed horizontal and vertical expansion of disposal area. The final elevation of the site increases from 1430' to 1540'.
9. **POST-CLOSURE USES** - Open space
10. **REMARKS/STATUS** - Republic Services, Inc., submitted an application for a new CUP to expand the disposal area by 98 acres and approximately 47 million cubic yards. The daily and weekly maximum disposal capacity would remain unchanged at 6,000 tpd and 30,000 tpw, respectively. The County of Los Angeles Department of Regional Planning prepared a Notice of Preparation and circulated it for public comments from August 12 to September 10, 2005.

On December 5, 2008, Republic Services, Inc. merged with Allied Waste Industries, Inc, and was required to divest Chiquita Canyon Landfill. On February 6, 2009, Republic Services and Waste Connections signed an agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc. Subsequently, Waste Connections, Inc. applied for a new CUP to increase the daily disposal capacity to 12,000 tpd. The County of Los Angeles Department of Regional Planning prepared a Notice of Preparation and circulated it for public comments from November 28, 2011 to February 13, 2012.

Note: 1 - Calculated or assumed quantities are shown in brackets.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Commerce Refuse-to-Energy Facility (CREF)

1. FACILITY INFORMATION

Owner: Commerce Refuse-to-Energy Authority (City of Commerce and County Sanitation District No. 2 of Los Angeles County)

Operator: County Sanitation District No. 2 of Los Angeles County

Address: 5926 Sheila Street, Commerce, CA 90040

SWFP No.: 19-AA-0506

Last 5-year Review Date: 08/15/2007

Operating Days: Monday-Sunday

SWFP Issue Date: 07/09/1997

5-year Review Due Date: 08/15/2012

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

467 tpd (based on six days per week)

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 1,000 tons (SWFP Requirement)

Weekly: 2,800 tons

4. 2011 AVERAGE WASTE QUANTITIES

Daily Received: 464 tpd

Daily Processed: 430 tpd

5. LAND USE/CONDITIONAL USE PERMIT – Not Applicable

6. WASTE DISCHARGE REQUIREMENTS - Not Applicable

7. PERMITTED WASTE TYPES - Solid waste

8. FOC GRANT DATE – 10/20/1983

9. FUTURE LAND USE - Not applicable

10. RESTRICTIONS - Facility requires high energy content waste. The City of Commerce Planning Commission made a written determination that the facility is consistent and designated in the City's Plan and that the adjacent zoning and surrounding land use is compatible with its operation. SWFP allows 1,000 tpd to be received and 2,800 tpd to be combusted.

Proposed Out-of-County Landfill

Eagle Mountain Landfill

1. **PROJECT PROPONENT** - Mine Reclamation Corporation
2. **FACILITY TYPE** - Class III landfill
3. **LOCATION** - Approximately 10 miles north of I-10 at Desert Center (60 miles northeast of Indio) in Riverside County. The site is located 170 miles east of Los Angeles along the Union Pacific Railroad.
4. **SIZE**

Proposed Disposal Area:	2,164 acres
Total Acreage of Site:	4,643 acres
5. **VOLUMETRIC CAPACITY**

Daily:	10,000 tons (with option to increase to 20,000 tpd)
Facility Capacity:	708 million tons
6. **LIFE EXPECTANCY** - Approximately 100 years
7. **CURRENT STATUS** - The project proponent received all required permits including the land use permit and Solid Waste Facility Permit.

A Federal lawsuit was filed in December 1999 by local citizens, claiming the project's environmental studies fell short in addressing its impact on wildlife, groundwater, air quality, scenery, and serenity. The lawsuit further claimed that the proposed land exchange between the Federal Bureau of Land Management and Mine Reclamation Corporation violates Federal law prohibiting such exchanges unless they serve the public and do not degrade the environmental resources on nearby Federal lands. In January 2000, the National Parks Conservation Association filed a similar Federal lawsuit.

In August 2000, the Sanitation Districts signed an agreement to purchase Eagle Mountain Landfill, subject to resolution of pending litigation. Federal litigation continues. The Landfill is permitted to accept 10,000 tpd for the first 10 years with the option of increasing the daily limit to 20,000 tpd after a review of environmental performance.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Lancaster Landfill and Recycling Center

1. FACILITY INFORMATION

Owner: Waste Management of California, Inc.	Operator: Waste Management of California, Inc.
Address: 600 East Avenue "F", Lancaster 93535 (Los Angeles County Unincorporated Area)	Operating Days: Monday-Saturday
SWFP No.: 19-AA-0050	SWFP Issue Date: 09/07/00
Last 5-year Review Date: 08/18/2011	5-year Review Due Date: 08/18/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	309,400 tons	372,771 cubic yards
Estimated Remaining Life:	1 year (based on Land Use Permit Restriction)	
In-Place Density:	0.83 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	1,700 tons	[2,048 cubic yards]
Weekly:	[10,200 tons]	[12,289 cubic yards]
Yearly Equivalent:	[530,400 tons]	[639,000 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	809 tons	[975 cubic yards]
---------------	----------	-------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 93-070-(5)	Issued: 05/13/1998	Expiration: 08/1/2012
Permit No.: 03-170-(5)	Issued: 12/14/2011	Expiration: 12/14/2041

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-95-103 and 6-95-103A	Effective: 09/14/1995 and 02/06/1997, amended by:
Order No.: 6-00-55	Effective: June 14, 2000

7. FOC GRANT DATE - April 20, 2000

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept more than 10 tpd of biosolids (sewage sludge). There is no wasteshed restriction on origin of waste.

Note: 1 - Calculated or assumed quantities are shown in brackets.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Proposed Expansion

Lancaster Landfill and Recycling Center Expansion

1. **FACILITY TYPE** - Class III landfill
2. **OWNER/OPERATOR** - Waste Management of California, Inc.
3. **LOCATION** - 600 East Avenue "F", Lancaster 93535
4. **SIZE**

Increase in Proposed Disposal Area:	0 acres
Increase in Total Acreage of Site:	0 acres
Increase in Elevation:	0 feet
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	3,000 tons	[3,846 cubic yards]
Yearly Equivalent:	[936,000 tons]	[1,200,000 cubic yards]
Additional Facility Capacity:	12,328,042 tons	14,853,062 cubic yards
In-Place Density:	0.82 tons/cubic yard	
6. **LAND USE/CONDITIONAL USE PERMIT** – The Los Angeles County Regional Planning Commission approved CUP No. 03-170-(5) for the proposed project on December 14, 2011.
7. **LIFE EXPECTANCY** – An additional 49 years based on the 2011 average daily disposal of 809 tpd; or 13 years based on the maximum permitted rate of disposal of 3,000 tpd; or 29 years based on landfill use permit restriction.
8. **EXPANSION OPTIONS** - No additional expansion option is proposed.
9. **POST-CLOSURE USES** - Open Space
10. **REMARKS/STATUS** - The landfill received a new CUP from the County on December 14, 2011, which increases the permitted daily tonnage from 1,700 tpd to 3,000 tpd and requires the landfill to close on December 14, 2041. An application to revise the Solid Waste Facility permit has not yet been filed.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Out-of-County Landfill

Mesquite Regional Landfill

1. **FACILITY INFORMATION**

Owner: County of Los Angeles Sanitation District 2	Operator: County of Los Angeles Sanitation District 2
Address: 6502 E Hwy 78, 5 Mi NE of Glamis, Brawley 92227	Operating Days: Not yet operational
SWFP No.: 13-AA-0026	SWFP Issue Date: 04/08/97
Last 5-year Review Date: 10/03/2011	5-year Review Due Date: 10/03/2016

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

Remaining Permitted Capacity:	[600,000 tons]	[1,000,000 cubic yards]
Estimated Remaining Life:	100 years	
In-Place Density:	0.60 tons/cubic yard	

3. **MAXIMUM PERMITTED CAPACITY**

Daily:	20,000 tons	[33,333 cubic yards]
Yearly Equivalent:	[7.3 million tons]	[12.2 million cubic yards]

4. **2011 AVERAGE WASTE QUANTITIES DISPOSED**

Daily: Not yet operational

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: NO. 060003	Issued: 04/27/2011	Expiration: To Be Determined
-------------------------------	---------------------------	-------------------------------------

6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: R7-2009-0003	Executed: 06/18/2009
--------------------------------	-----------------------------

7. **PERMITTED WASTE TYPES - Solid Waste**

8. **FUTURE LAND USE** – Disposal

9. **RESTRICTIONS/CURRENT STATUS**

In February 2007, the Sanitation Districts submitted an application to Imperial County to amend the Mesquite Regional Landfill CUP for the receipt of up to 4,000 tpd of municipal solid waste by truck. Once the waste-by-rail system is operational, the ability to receive waste by truck will provide operational flexibility with the ability to ramp up until enough tonnage is received to make up a unit train.

Imperial County Planning and Development Services issued a Notice of Availability of the Final Subsequent EIR on October 6, 2010. The Board of Supervisors held a public hearing on the project on April 5, 2011, and subsequently approved the CUP. The Sanitation Districts also obtained a revised Solid Waste Facility Permit (SWFP) from CalRecycle/Local Enforcement Agency on October 1, 2011 for truck haul and other entitlements granted by the new CUP.

Notes: 1 - Calculated or assumed quantities are shown in brackets.

Pebble Beach Landfill

1. **FACILITY INFORMATION**

Owner: City of Avalon	Operator: Seagull Sanitation Systems (Republic Services, Inc.)
Address: 1 Dump Road, Avalon 90704 (Los Angeles County Unincorporated Area)	Operating Days: Monday-Sunday
SWFP No.: 19-AA-0061	SWFP Issue Date: 04/10/01
Last 5-year Review Date: 11/06/06	5-year Review Due Date: 11/06/11

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

Remaining Permitted Capacity:	[58,000 tons]	[65,000 cubic yards]
Estimated Remaining Life:	17 years (based on Land Use Permit Restriction)	
In-Place Density:	0.89 tons/cubic yard	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	49 tons	[55 cubic yards]
Yearly Equivalent:	[17,885 tons]	[20,095 cubic yards]

4. **2011 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	8 tons	[9 cubic yards]
---------------	--------	-----------------

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 96-162-(4)	Issued: 07/29/1998	Expiration: 07/29/2028
-------------------------------	---------------------------	-------------------------------

6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: R4-2002-0058	Effective: 02/28/2002
--------------------------------	------------------------------

7. **FOC GRANT DATE** - 01/21/1999

8. **PERMITTED WASTE TYPES** - Solid waste

9. **FUTURE LAND USE** - Open space

10. **RESTRICTIONS** - There is no washed restriction on origin of waste. However, due to its location on Santa Catalina Island, only the City of Avalon and adjacent unincorporated County areas have access to this facility.

Notes: 1 - Calculated or assumed quantities are shown in brackets.
2 - Remaining permitted capacity includes the expansion capacity granted in CUP No. 96-162-(4), dated July 29, 1998.

Puente Hills Landfill

1. **FACILITY INFORMATION**

Owner: County Sanitation District No. 2 of Los Angeles County	Operator: Same as owner
Address: 13130 Crossroads Parkway South, Industry 91746 (Los Angeles County Unincorporated Area)	Operating Days: Monday-Saturday
SWFP No.: 19-AA-0053	SWFP Issue Date: 06/08/2010
Last 5-year Review Date: 7/11/2008	5-year Review Due Date: 06/08/2015

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

Remaining Permitted Capacity:	7,550,400 tons	[13,728,000 cubic yards]
Estimated Remaining Life:	2 years (based on Land Use Permit Restriction)	
Aggregate Density:	0.55 tons/cubic yard	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	13,200 tons	[24,000 cubic yards]
Weekly:	[79,200 tons]	[144,000 cubic yards]
Yearly Equivalent:	[4,118,400 tons]	[7,488,000 cubic yards]

4. **2011 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	5,116 tons	[9,302 cubic yards]
---------------	------------	---------------------

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 02-027-(4)	Issued: 12/18/2002	Expiration: 10/31/2013
-------------------------------	---------------------------	-------------------------------

6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: 93-062	Effective: 09/27/1993, amended by:
Order No.: R4-2006-0007	Effective: 01/19/2006

7. **FOC GRANT DATE** - February 20, 2003

8. **PERMITTED WASTE TYPES** - Solid waste

9. **FUTURE LAND USE** - Open space and recreational use

10. **RESTRICTIONS** - Limited to 13,200 tpd of solid waste, 11,700 tpd of soil, and 33,000 tpd of beneficial reuse material. The Landfill can only accept treated incinerator ash, and biosolids (sludge) from the operator's wastewater treatment facilities. The County of Los Angeles Regional Planning Commission granted a new Conditional Use Permit on December 18, 2002 and the limited life of the project to October 31, 2013.

Notes: 1 - Calculated or assumed quantities are shown in brackets.

San Clemente Landfill

1. **FACILITY INFORMATION**

Owner: U.S. Department of the Navy	Operator: U.S. Department of the Navy
Address: Naval Auxiliary Landing Field, San Clemente Island 92135	Operating Days: 2 days/week (Tuesday and Thursday)
SWFP No.: 19-AA-0063	SWFP Issue Date: 11/19/2002
Last 5-year Review Date: 01/07/2008	5-year Review Due Date: 01/07/2013

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

Remaining Permitted Capacity:	23,000 tons	[183,000 cubic yards]
Estimated Remaining Life:	57 years (based on average daily disposal of 1 tpd, 312 days per year)	
In-Place Density:	0.125 tons/cubic yard	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	10 tons	[80 cubic yards]
Weekly:	[20 tons]	[160 cubic yards]
Yearly Equivalent:	[1,040 tons]	[8,320 cubic yards]

4. **2011 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	1 ton	[8 cubic yards]
---------------	-------	-----------------

5. **LAND USE/CONDITIONAL USE PERMIT** – Not Applicable

6. **WASTE DISCHARGE REQUIREMENTS** – Not Applicable

7. **FOC GRANT DATE** – None

8. **PERMITTED WASTE TYPES** - Solid waste

9. **FUTURE LAND USE** - Open space

10. **RESTRICTIONS** - This landfill is used solely by the U.S. Department of the Navy. SWFP is under review by the CalRecycle as they address new Title 27 methane monitoring requirements.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Scholl Canyon Landfill

1. FACILITY INFORMATION

Owner: City of Glendale & County of Los Angeles **Operator:** County Sanitation Districts No. 2
Address: 3001 Scholl Canyon Road, Glendale, CA 91206 **Operating Days:** Monday-Saturday
SWFP No.: 19-AA-0012 **SWFP Issue Date:** 12/13/2011
Last 5-year Review Date: 12/03/2009 **5-year Review Due Date:** 12/03/2014

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity: 3,618,000 tons 7,444,000 cubic yards
Estimated Remaining Life: 16 years (based on average daily disposal of 747 tpd, 312 days per year)
In-Place Density: 0.486 tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 3,400 tons [6,996 cubic yards]
Weekly: [20,400 tons] 41,975 cubic yards]
Yearly Equivalent: [1,060,800 tons] [2,182,716 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily: 747 tons [1,537 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 6668-U (Zoning Variance) **Issued:** 11/27/1978 **Expiration:** Completion of Project

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 01-132 **Issued:** 09/19/1988;
Order No.: R4-2011-0052 **Issued:** 03/03/2011

7. FOC GRANT DATE - None

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The use of the Landfill is restricted by the City of Glendale Ordinance 4780 to the County of Los Angeles Cities of Glendale, La Canada Flintridge, Pasadena, South Pasadena, San Marino, and Sierra Madre; and the Los Angeles County unincorporated areas of Altadena, La Crescenta, Montrose; the unincorporated area bordered by the incorporated cities of San Gabriel, Rosemead, Temple City, Arcadia and Pasadena; and the unincorporated area immediately to the north of the City of San Marino bordered by the City of Pasadena on the west, north, and east sides.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Scholl Canyon Landfill Expansion

1. **FACILITY TYPE** - Class III landfill
2. **OWNER:** City of Glendale & County of Los Angeles **OPERATOR:** County Sanitation Districts No. 2
3. **LOCATION** - 3001 Scholl Canyon Road, Glendale, CA 91206
4. **SIZE**

 Increase in Proposed Disposal Area: 0 acres
 Increase in Total Acreage of Site: Variation 1: None
 Variation 2: To Be Determined
 Increase in Vertical Elevation: Variation 1: None
 Variation 2: To Be Determined
5. **PROPOSED VOLUMETRIC CAPACITY**

 Daily: 3,400 tons [7,556 cubic yards]
 Yearly Equivalent: [1,060,800 tons] [2,271,520 cubic yards]
 Additional Facility Capacity: Variation 1: 5.0 million tons (vertical expansion only);
 Variation 2: 6.0 million tons (horizontal and vertical expansion)
 In-Place Density: 0.486 tons/cubic yard
6. **ADDITIONAL LIFE DUE TO EXPANSION**
 Variation 1:
 [5 years] based on 5.0 million tons of remaining disposal capacity, at 3,400 tpd, and 312 operating days/year (based on permitted capacity); or
 [21 years] based on 5.0 million tons of remaining disposal capacity, at 754 tpd, and 312 operating days/year (based on 2011 Average Daily Rate).

 Variation 2:
 [6 years] based on 6.0 million tons, at 3,400 tpd, and 312 operating days/year (based on permitted capacity); or
 [26 years] based on 6.0 million tons, at 754 tpd, and 312 operating days/year (based on 2011 Average Daily Rate).
7. **EXPANSION OPTIONS** - The potential expansion of this Landfill is recognized in the Joint Powers Authority governing the operation of the site; however, details on the expansion have not been finalized. The currently proposed expansion consists of two variations: Variation 1 (vertical expansion only) and Variation 2 (vertical and horizontal expansion). The Landfill would continue to be permitted to receive 3,400 tpd of non-hazardous solid waste, and all resource and material recovery programs will continue to be implemented.
8. **POST-CLOSURE USES** - Park, recreation, and roadway purposes; or for the implementation of solid waste management alternatives or other facilities related to the operation of a sanitary landfill on the premises.
9. **REMARKS/STATUS** - It is estimated that once the permitted capacity is exhausted, approximately 6 million tons of potentially available capacity would remain at the site.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Southeast Resource Recovery Facility (SERRF)

1. **FACILITY INFORMATION**

Owner: City of Long Beach	Operator: Monterey Pacific Power Corporation
Address: 120 Pier South Avenue, Long Beach 90802	Operating Days: Monday-Friday (receive) Monday-Sunday (process)
SWFP No.: 19-AK-0083	SWFP Issue Date: 03/03/98
Last 5-year Review Date: 08/27/2009	5-year Review Due Date: 08/27/2014

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

2,240 tpd (based on six days per week)

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily: 2,240 tons (SWFP Requirement)
Yearly: 500,000 tons (Environmental Protection Agency requirement)

4. **2011 AVERAGE WASTE QUANTITIES**

Daily Received: 1,572 tpd **Daily Processed:** 1,571 tpd

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: HDP-84174

6. **WASTE DISCHARGE REQUIREMENTS** - Not Applicable

7. **PERMITTED WASTE TYPES** - Solid waste

8. **FOC GRANT DATE** - September 18, 1997

9. **FUTURE LAND USE** - Not applicable

10. **RESTRICTIONS** - There is no wasteshed or restriction on origin of waste.

Sunshine Canyon City/County Landfill

1. FACILITY INFORMATION

Owner: Republic Services, Inc.	Operator: Same as owner
Address: 14747 San Fernando Road, Sylmar 91342	Operating Days: Monday-Saturday
SWFP No.: 19-AA-2000	SWFP Issue Date: 07/07/08
Last 5-year Review Date: 07/07/08	5-year Review Due Date: 07/07/13

2. REMAINING PERMITTED CAPACITY (as of December 31, 2011)

Remaining Permitted Capacity:	82,389,030 tons	97,986,788 cubic yards
Estimated Remaining Life:	25 years (based on land use permit restriction)	
In-Place Density:	0.8 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	12,100 tons	[15,125 cubic yards]
Weekly:	72,600 tons	[90,750 cubic yards]
Yearly Equivalent:	[3,775,200 tons]	[4,719,000 cubic yards]

4. 2011 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	7,801 tons	[9,751 cubic yards]
---------------	------------	---------------------

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-0184	Issued: 01/22/2000	Expiration: Completion of project, superseded by:
Permit No.: 00-194-(5)	Effective: 05/24/2007	Expiration: 02/06/2037

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2007-0064	Effective: 12/06/2007;
Order No.: R4-2008-0088	Effective: 10/02/2008;
Order No.: R4-2011-0052	Effective: 03/03/2011

7. FOC GRANT DATE – December 18, 2008

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept incinerator ash or biosolids (sewage sludge). The Landfill is prohibited from accepting any solid waste generated outside the County.

11. REMARKS/STATUS - On December 31, 2008, operations in the Sunshine Canyon County Landfill and the Sunshine Canyon City Landfill were combined into one to what is known as the Sunshine Canyon City/County Landfill.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Whittier (Savage Canyon) Landfill

1. **FACILITY INFORMATION**

Owner: City of Whittier
Address: 13919 E. Penn St., Whittier, CA 90602

Operator: City of Whittier
Operating Days: Monday-Saturday

SWFP No.: 19-AH-0001
Last 5-year Review Date: 01/27/2009

SWFP Issue Date: 02/28/1995
5-year Review Due Date: 01/27/2014

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2011)**

Remaining Permitted Capacity:	3,668,000 tons	[6,113,333 cubic yards]
Estimated Remaining Life:	49 years (based on average daily disposal of 350 tpd, 312 day per year)	
In-Place Density:	0.6 tons/cubic yard	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	350 tons	[584 cubic yards]
Weekly:	[2,100 tons]	[3,500 cubic yards]
Yearly Equivalent:	109,200 tons	[182,000 cubic yards]

4. **2011 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	241 tons	[402 cubic yards]
---------------	----------	-------------------

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: City Resolution No. 4907 **Expiration:** Completion of project

6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: R4-2006-0007 **Issue Date:** 01/19/2006

7. **FOC GRANT DATE** – 11/30/1978

8. **PERMITTED WASTE TYPES** - Mixed municipal, Construction/demolition, Industrial, Green Materials, and Inert waste.

9. **FUTURE LAND USE** - Open space

10. **RESTRICTIONS** - Hazardous, radioactive, liquid, or medical waste are all prohibited per Chapter 6.1, Division 20 of California Health and Safety Code.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Whittier (Savage Canyon) Landfill Expansion

1. **FACILITY TYPE** - Class III landfill
2. **OWNER/OPERATOR** - City of Whittier
3. **LOCATION** - 13919 E. Penn St., Whittier, CA 90602
4. **SIZE**

Increase in Proposed Disposal Area: 0 acres
Increase in Total Acreage of Site: 0 acres
Increase in Vertical Elevation: To Be Determined
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily: 350 tons [584 cubic yards]
Yearly Equivalent: 109,200 tons [182,000 cubic yards]
Additional Facility Capacity: [2.63 million tons] 4.4 million cubic yards
In-Place Density: 0.6 tons/cubic yard
6. **LIFE EXPECTANCY** – An additional 35 years based on the 2011 average daily disposal of 241 tpd or 24 years based on the maximum permitted rate of disposal of 350 tpd.
7. **EXPANSION OPTIONS** – See No. 4 for details
8. **POST-CLOSURE USES** - Open Space
9. **REMARKS/STATUS** - Whittier Landfill is owned and operated by the City of Whittier. The City Public Works Department is proposing to increase the site capacity from approximately 8.1 million cubic yards, as identified in the current SWFP issued on February 28, 1995, to 12.5 million cubic yards. The Local Enforcement Agency received an application for Solid Waste Facility Permit modification on March 2, 2012.

Note: 1 - Calculated or assumed quantities are shown in brackets.

Appendix E-2 Tables

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-2 TABLE 1
REMAINING PERMITTED DISPOSAL CAPACITY OF EXISTING SOLID WASTE DISPOSAL FACILITIES IN LOS ANGELES COUNTY**

Facility	Solid Waste Facility Permit Number	Location City or Unincorporated Area	Permitted Operation days/week	SWFP Maximum Daily Capacity Tons	LUP Maximum Daily Capacity Tons	2011 Annual Disposal (Million Tons) (See Note 1)			2011 Average Daily Disposal tpd-6 (See Note 1)			Estimated Remaining Permitted Capacity (as of December 31, 2011) (See Note 2)		Remaining Life (b) Years	Comments
						In-County	Out-of-County	Total	In-County	Out-of-County	Total	Million Tons	Million (a) Cubic Yards		
Antelope Valley	19-AA-5624	Palmdale	6	1,800	1,800	0.114	0.000	0.114	364	1	365	16.09	21.17	141	The City of Palmdale approved the expansion and combined Antelope Valley Landfills #1 & #2 on September 19, 2011. The estimated remaining capacity of 16.09 million tons includes an addition of 9 million tons as a result of the expansion.
Burbank	19-AA-0040	Burbank	5	240	---	0.030	0.000	0.030	95	0	95	2.82	5.12	95	Limited to use by City of Burbank crew only.
Calabasas	19-AA-0056	Unincorporated Area	6	3,500	---	0.229	0.014	0.243	735	44	779	5.71	12.78	24	Limited to the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.
Chiquita Canyon	19-AA-0052	Unincorporated Area	6	6,000	6,000	1.319	0.011	1.330	4,228	36	4,264	4.90	6.59	4	Proposed expansion pending. LUP limits waste disposal to 30,000 tons per week. LUP expires November 24, 2009.
Lancaster	19-AA-0050	Unincorporated Area	6	1,700	1,700	0.247	0.006	0.252	790	19	809	0.31	0.37	1	New CUP is expected to take effect August 1, 2012, which will allow usage of the remaining design capacity of 12.3 million tons.
Pebble Beach	19-AA-0061	Unincorporated Area	7	49	49	0.002	0.000	0.002	8	0	8	0.06	0.07	17	LUP expires July 29, 2028.
Puente Hills	19-AA-0053	Unincorporated Area	6	13,200	13,200	1.575	0.021	1.596	5,048	67	5,116	7.55	13.73	2	LUP limits waste disposal to 13,200 tons per day. The closure date is scheduled for October 31, 2013.
San Clemente	19-AA-0063	San Clemente Island	2	10	---	0.000	0.000	0.000	1	0	1	0.02	0.18	57	Landfill owned and operated by the U.S. Navy.
Scholl Canyon	19-AA-0012	Glendale/ Unincorporated Area	6	3,400	---	0.233	0.000	0.233	747	0	747	3.62	7.44	16	Limited to the Scholl Canyon Wasteshed as defined by City of Glendale Ordinance No. 4782.
Sunshine Canyon City/County	19-AA-2000	Los Angeles/ Unincorporated Area	6	12,100	12,100	2.434	0.000	2.434	7,801	0	7,801	82.39	97.99	25	The combined Sunshine Canyon City/County Landfill became effective December 31, 2008, based on a memorandum of understanding between the City and County of Los Angeles.
Whittier (Savage Canyon)	19-AH-0001	Whittier	6	350	350	0.075	0.000	0.075	241	0	241	3.67	6.11	49	Limited to use by City of Whittier and waste haulers contracted with the City of Whittier.
TOTAL				42,349		6.258	0.052	6.310	20,058	168	20,226	127.14	171.57	431	

Waste-to-Energy (Transformation) Facilities																
Commerce Refuse To-Energy Facility	19-AA-0506	Commerce	7	1,000	---	0.102	0.005	0.108	328	17	345	466.64	(c)	777.73	—	Assumed to remain operational during the 15-year planning period.
Southeast Resource Recovery Facility	19-AK-0083	Long Beach	7	2,240	---	0.422	0.045	0.467	1,351	145	1,496	1,601.96	(d)	2,669.94	—	Assumed to remain operational during the 15-year planning period.
TOTAL				3,240		0.524	0.050	0.574	1,680	162	1,841	2,068.60	(e)	3,447.67	—	

Permitted Inert Landfills																
Azusa Land Reclamation	19-AA-0013	Azusa	6	6,500	---	0.072	0.039	0.111	230	126	357	64.21		53.51	576	By Court Order, on October 2, 1996, the California Regional Water Quality Control Board-Los Angeles region ordered the Azusa Land Reclamation Landfill to stop accepting Municipal Solid Waste. Permitted daily capacity of 6,500 tons per day consists of 6,000 tons per day of refuse and 500 tons per day of inert waste. Facility currently accepts inert waste only.
TOTAL				6,500		0.072	0.039	0.111	230	126	357	64.21		53.51	576	

Out-of-County Disposal	Los Angeles County Waste Exported in 2011 to Out-of-County Class III Disposal Facilities = 1,900,757 tons or 6,092 tpd-6														
-------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

- Disposal quantities are based on actual tonnages reported by owners/operators of permitted solid waste disposal facilities to the Los Angeles County Department of Public Works' Solid Waste Information Management System (www.LACountySWIMS.org).
- Estimated Remaining Permitted Capacity based on landfill owner/operator's response in a written survey conducted by Los Angeles County Department of Public Works in May 2011 as well as site-specific permit criteria established by local land use agencies.

Abbreviation:

- LUP Land Use Permit or Conditional Use Permit
SWFP Solid Waste Facility Permit

FOOTNOTES:

- Conversion factor based on in-place solid waste density if provided by landfill operators, otherwise a conversion factor of 1,200 lb/cy was used.
- Remaining Life is based on either the 2011 average daily disposal tonnage or the facility's permit expiration date.
- Based on the Solid Waste Facility Permit limit of 2,800 tons per week, expressed as a daily average, six days per week.
- Based on EPA limit of 500,000 tons per year, expressed as a daily average, six days per week.
- Tonnage expressed as a daily average, six days per week.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

APPENDIX E-2 TABLE 2

DISPOSAL CAPACITY OF INERT DEBRIS ENGINEERED FILL OPERATIONS IN LOS ANGELES COUNTY

Facility	Solid Waste Facility Permit	Location	Operation days/week	SWFP Maximum Daily Capacity		2011 Average Daily Disposal ¹		2011 Annual Disposal ²	
				(cubic yards)	(tpd-6)	(cubic yards)	(tpd-6)	(million cubic yards)	(million tons)
Atkinson Brick Company	N/A	Los Angeles	6	N/A	N/A	360	450	0.11	0.14
Chandler's Palos Verdes Sand & Gravel	19-AE-0004	Rolling Hills Estates	6	1,282	1,603	172	215	0.05	0.07
Durbin Inert Debris Engineered Fill Site	19-AA-1111	Irwindale	5	3,200	4,000	172	215	0.01	0.01
Hanson Aggregates (Livingston-Graham)	19-AA-0044	Irwindale	6	1,280	1,600	0	0	0.00	0.00
Lower Azusa Reclamation Project	19-AA-0868	Arcadia	6	4,000	5,000	2,234	2,793	0.70	0.87
Montebello Land & Water Co.	19-AA-0019	Montebello	6	1	1	172	215	0.05	0.07
Nu-Way Arrow	19-AA-1074	Irwindale	6	6,000	7,500	1,334	1,667	0.42	0.52
Peck Road Gravel Pit	19-AA-0838	Monrovia	6	968	1,210	0	0	0.00	0.00
Reliance Pit #2 (CalMat) Vulcan	19-AA-0854	Irwindale	6	4,800	6,000	1,331	1,664	0.42	0.52
Strathern Landfill	19-AR-1016	Los Angeles	6	2,160	2,700	0	0	0.00	0.00
Sun Valley (CalMat/Vulcan)	19-AR-1160	Los Angeles	6	1,458	1,823	336	420	0.10	0.13
United Rock	N/A	Irwindale	6	N/A	N/A	0	0	0.00	0.00
TOTAL				25,149	31,436	6,112	7,640	1.86	2.33

NOTES:

1. Disposal quantities for 2011 are based on actual tonnages reported by owners/operators through the Solid Waste Management Fee invoice receipt.
2. Conversion factor based on in-place solid waste density if provided by landfill operators, otherwise a conversion factor of 2,500 lb/cy was used.

Source: Los Angeles County Department of Public Works, August 2012

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-2 TABLE 3
OUT-OF-COUNTY LANDFILLS CURRENTLY AVAILABLE FOR USE BY JURISDICTIONS IN LOS ANGELES COUNTY**

Facility Location Owner/Operator	Rail Access	Distance from Los Angeles County ¹	2011 Average Daily Disposal Rate (tpd-6)	Potential Available Disposal Capacity (tpd)	2011 Average Disposal from Los Angeles County ^{2,3} (tpd-6)	Operation days/week	Permitted Daily Disposal (tpd-6)	Remaining Permitted Disposal Capacity (million tons) ⁴	Remaining Design Life (years)	Tipping Fees ⁵	Import Surcharge	Comments
El Sobrante Landfill Riverside County Waste Mgmt., Inc.	NO	60 miles	7,019	4,000	2,160	6	16,054	151	33	\$34.37 per ton	\$5 per ton	Landfill can accept up to 11,054 tpd from other counties, including Los Angeles County. Remaining capacity and design life are based on the SWFP which was approved by CalRecycle on August 18, 2009.
Frank R. Bowerman Sanitary Landfill Orange County O.C. Integrated Waste Mgmt. Dept	NO	45 miles	4,710	1,500	508	6	11,500	120	42	\$54.30 per ton	0	The County of Orange has three import waste agreements with waste hauling companies to import waste into Orange County. Olinda Alpha Landfill's waste import agreement will expire on June 30, 2016. Frank R. Bowerman and Prima Desecha Landfills' waste import agreement will end on December 31, 2015.
Olinda Alpha Sanitary Landfill Orange County O.C. Integrated Waste Mgmt. Dept	NO	30 miles	5,112	1,500	747	6	8,000	27	10	\$54.30 per ton	0	
Prima Desecha Sanitary Landfill² Orange County O.C. Integrated Waste Mgmt. Dept	NO	60 miles	1,149	1,500	254	6	4,000	75	56	\$54.30 per ton	0	
Simi Valley Landfill & Recycling Center Ventura County Waste Mgmt., Inc.	NO	50 miles	2,183	850	375	7	6,000	14	15	\$56.00 per ton	0	Waste Management received all necessary permits to increase the daily maximum disposal tonnage from 3,000 tpd to 6,000 tpd.
Mesquite Regional Landfill Imperial County County Sanitation Districts of Los Angeles County	YES	210 miles	—	12,000	—	—	20,000	582	86	—	\$1-\$5 per ton	Not yet operational. Permitted to reserve up to 1,000 tpd of available capacity for Imperial County. Up to 4,000 tpd may be transported by truck haul.
Mid-Valley Sanitary Landfill San Bernardino County San Bernardino County Solid Waste Management Division	NO	47 miles	1,734	n/a	60	6	7,500	70	40	\$58.73 per ton	—	Currently accepts solid waste from the City of Claremont and other cities in Los Angeles County under contract with the West Valley MRF.
Avenal Landfill King County Madera Disposal Systems, Inc.	YES	195 miles	1,254	3,000	47	7	6,000	31	47	\$40 per ton	—	
TOTAL				24,350	4,152							

NOTES:

- Distance is measured from Downtown Los Angeles, California.
- Estimated quantity based on the Disposal Reporting System information from the respective Counties.
- Waste exported to other Counties (i.e. Kern, Kings, San Bernardino, San Diego, and Stanislaus) accounts for another 1,940 tons per day. Total Waste exported in 2011 is approximately 6,092 tons per day.
- Estimated quantity provided by landfill operators in tons, otherwise a conversion factor of 1,200 lb/cy was used.
- Tipping fees as of January 1, 2012.

Source: Los Angeles County Department of Public Works, August 2012

2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 4

POPULATION, EMPLOYMENT, AND REAL TAXABLE SALES IN LOS ANGELES COUNTY

YEAR	POPULATION		EMPLOYMENT		REAL TAXABLE SALES	
	(persons)	(millions of persons)	(persons)	(millions of persons)	(dollars)	(billions of dollars)
2011	9,889,000	10	3,796,200	4	104,300,000,000	104.3
2012	9,951,000	10	3,875,200	4	108,900,000,000	108.9
2013	10,029,000	10	3,976,200	4	113,300,000,000	113.3
2014	10,109,000	10	4,072,600	4	119,000,000,000	119.0
2015	10,187,000	10	4,167,500	4	125,300,000,000	125.3
2016	10,259,000	10	4,256,900	4	131,600,000,000	131.6
2017	10,329,000	10	4,342,200	4	135,400,000,000	135.4
2018	10,398,000	10	4,417,700	4	140,200,000,000	140.2
2019	10,467,000	10	4,484,700	4	145,400,000,000	145.4
2020	10,536,000	11	4,541,700	5	150,200,000,000	150.2
2021	10,605,000	11	4,588,300	5	154,600,000,000	154.6
2022	10,675,000	11	4,629,600	5	159,300,000,000	159.3
2023	10,747,000	11	4,670,300	5	164,000,000,000	164.0
2024	10,819,000	11	4,710,700	5	169,100,000,000	169.1
2025	10,891,000	11	4,750,300	5	173,300,000,000	173.3
2026	10,963,000	11	4,790,100	5	177,700,000,000	177.7

Source: UCLA Anderson Longterm Forecast for Los Angeles County, dated August 2011.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-2 TABLE 5
LOS ANGELES COUNTY SOLID WASTE DISPOSAL CAPACITY**

A YEAR	B TOTAL GENERATION TONS	C PERCENT DIVERSION (ASSUMED)	D TOTAL DIVERSION TONS	E PROJECTED TRANSFORMATION & CLASS III LANDFILL DISPOSAL (TONS)	F AVAILABLE TRANSFORMATION CAPACITY TONS	G, H, I, J CLASS III LANDFILL DISPOSAL NEED			
						ANNUAL		CUMULATIVE (YEAR'S END)	
						TONS	CUBIC YARDS	TONS	CUBIC YARDS
2011	19,295,355	55%	10,612,445	8,682,910	645,600	8,037,310	13,395,516	8,037,310	13,395,516
2012	19,852,801	55%	10,919,041	8,933,761	645,600	8,288,161	13,813,601	16,325,470	27,209,117
2013	20,446,816	55%	11,245,749	9,201,067	645,600	8,555,467	14,259,112	24,880,937	41,468,229
2014	21,135,135	55%	11,624,324	9,510,811	645,600	8,865,211	14,775,351	33,746,148	56,243,580
2015	21,867,570	55%	12,027,163	9,840,406	645,600	9,194,806	15,324,677	42,940,954	71,568,257
2016	22,586,336	55%	12,422,485	10,163,851	645,600	9,518,251	15,863,752	52,459,205	87,432,009
2017	23,095,818	55%	12,702,700	10,393,118	645,600	9,747,518	16,245,864	62,206,724	103,677,873
2018	23,663,422	55%	13,014,882	10,648,540	645,600	10,002,940	16,671,566	72,209,664	120,349,439
2019	24,244,326	55%	13,334,379	10,909,947	645,600	10,264,347	17,107,245	82,474,010	137,456,684
2020	24,771,318	55%	13,624,225	11,147,093	645,600	10,501,493	17,502,488	92,975,503	154,959,172
2021	25,243,518	55%	13,883,935	11,359,583	645,600	10,713,983	17,856,638	103,689,486	172,815,811
2022	25,728,319	55%	14,150,576	11,577,744	645,600	10,932,144	18,220,239	114,621,630	191,036,050
2023	26,212,335	55%	14,416,784	11,795,551	645,600	11,149,951	18,583,251	125,771,581	209,619,301
2024	26,727,652	55%	14,700,209	12,027,444	645,600	11,381,844	18,969,739	137,153,424	228,589,040
2025	27,169,303	55%	14,943,117	12,226,186	645,600	11,580,586	19,300,977	148,734,011	247,890,018
2026	27,627,372	55%	15,195,055	12,432,318	645,600	11,786,718	19,644,529	160,520,728	267,534,547

NOTES:

1. Waste generation (Column B) is calculated using CalRecycle's Adjustment Methodology, utilizing employment, population, and taxable sales projections from UCLA.
2. Waste generation for 2011 is based on actual in-County and out-of-County transformation and Class III landfill disposal by jurisdictions in Los Angeles County. A 55 percent diversion rate is assumed. These tonnages DO NOT include inert waste disposed at permitted Inert landfills.
3. The 2011 transformation and Class III landfill disposal quantity (first figure under Column E) is based on tonnages reported by permitted solid waste disposal facility operators in Los Angeles County and export quantities reported by other counties to the Los Angeles County Department of Public Works as part of the 2011 Disposal Quantity Reporting data.
4. Columns H and J are based on Columns G and I, respectively, using an in-place waste density of 1,200 lb/cy.

Source: Los Angeles County Department of Public Works, August 2012

Appendix E-3 Comparison of Daily Disposal Demand and SB 1016 Limit

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-3
BASE YEAR PROJECTIONS BASED ON SB 1016 LIMIT**

Year	Generation (Annual Tons)	Population	Per Capita Generation (Lbs/Resident/Day)
2003	23,798,794	9,993,000	13.05
2004	23,933,735	10,105,000	12.98
2005	24,623,753	10,184,000	13.25
2006	23,614,933	10,233,000	12.65
Four-year Average of Generation:			12.98
Diversion Requirement Level:			50%
Per Capita Disposal Limit:			6.49
Per Capita Transformation Credit Cap (=10% x 12.98):			1.30
Year	Disposal (Annual Tons)	Population	Per Capita Disposal without Transformation Credit (Lbs/Resident/Day)
2011	8,682,910	9,889,000	4.81
Transformation (Annual Tons)	Transformation Credit (Lbs/Resident/Day)	Per Capita Disposal with Transformation Credit (Lbs/Resident/Day)	
524,021	0.29	4.52	
Is the per capita disposal less than the per capita disposal limit?			Yes

Note: Per Capita Generation = $\frac{(\text{Generation}) \times (2000 \text{ lb/ton})}{(\text{Population}) \times (365 \text{ days})}$

Per Capita Disposal Limit = $(\text{Four-Year Avg of Generation}) \times (1 - \text{Diversion Requirement Level})$

Source: Los Angeles County Department of Public Works, August 2012

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-3
COMPARISON OF DAILY DISPOSAL DEMAND AND SB 1016 DISPOSAL LIMIT
Status Quo**

Daily Disposal Demand				SB 1016 Disposal Limit				
Year	Total Annual Waste Generation ¹	Diversion Rate ² Status Quo	Total Annual Waste Disposal	Los Angeles County Population ³	SB 1016 Per Capita Disposal	SB 1016 Per Capita Disposal Limit ²	SB 1016 Annual Disposal Limit	Minimum Diversion Rate Equivalent To Meet SB 1016
	A	B	C = A*(1 - B)	D	E = (C*2000lb/ton)/(D*365 days)	F	G = (D*F*365days)/(2000lb/ton)	I = (1 - G/A)*100
	(tons)			(Residents)	(lb/res/day)	(lb/res/day)	(tons)	
2008	22,985,121	55%	10,343,305	10,336,000	5.483	6.49	12,242,217	47%
2009	20,211,219	55%	9,095,048	10,398,000	4.793	6.49	12,315,651	39%
2010	19,489,744	55%	8,770,385	9,836,000	4.886	6.49	11,650,004	40%
2011	19,295,355	55%	8,682,910	9,889,000	4.811	6.49	11,712,779	39%
2012	19,852,801	55%	8,933,761	9,951,000	4.919	6.49	11,786,213	41%
2013	20,446,816	55%	9,201,067	10,029,000	5.027	6.49	11,878,598	42%
2014	21,135,135	55%	9,510,811	10,109,000	5.155	6.49	11,973,352	43%
2015	21,867,570	55%	9,840,406	10,187,000	5.293	6.49	12,065,737	45%
2016	22,586,336	55%	10,163,851	10,259,000	5.429	6.49	12,151,016	46%
2017	23,095,818	55%	10,393,118	10,329,000	5.513	6.49	12,233,926	47%
2018	23,663,422	55%	10,648,540	10,398,000	5.611	6.49	12,315,651	48%
2019	24,244,326	55%	10,909,947	10,467,000	5.711	6.49	12,397,376	49%
2020	24,771,318	55%	11,147,093	10,536,000	5.797	6.49	12,479,102	50%
2021	25,243,518	55%	11,359,583	10,605,000	5.869	6.49	12,560,827	50%
2022	25,728,319	55%	11,577,744	10,675,000	5.943	6.49	12,643,737	51%
2023	26,212,335	55%	11,795,551	10,747,000	6.014	6.49	12,729,015	51%
2024	26,727,652	55%	12,027,444	10,819,000	6.091	6.49	12,814,294	52%
2025	27,169,303	55%	12,226,186	10,891,000	6.151	6.49	12,899,573	53%
2026	27,627,372	55%	12,432,318	10,963,000	6.214	6.49	12,984,851	53%

Footnotes:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA Longterm Forecast, August 2011.
2. Per Capita Disposal Limit is based on 2003-2006 Base Year Projections on SB 1016 Limit.
3. Los Angeles Countywide Population Projection (UCLA, Long Term Forecast of Los Angeles County, August 2011)

Appendix E-4 Disposal Capacity Analysis Scenarios

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-4
SCENARIO I - STATUS QUO**

• Existing In-County Class III Landfills and Transformation Facilities

• Current Available Out-of-County Disposal Capacity

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	1	2	3	4	5	6	7	8	9	10	11	Total	Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)					
							IN-COUNTY CLASS III LANDFILLS											G					H=F-G	I	J=H-I		
							R	R	R	R	R	R	R	R	R	R	R										
							Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine County	Whittier										
							Maximum Permitted Daily Capacity (tpd-6)																				
							Expected Average Daily Tonnage (tpd-6)																				
							Remaining Capacity at Year's End (Million Tons)																				
2011	61,844	55%	27,830	456	1,680	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-						
							364	95	735	4,228	790	8	5,048	1	747	7,801	241										
							16.1	2.8	5.7	4.9	0.3	0.1	7.6	0.02	3.6	82.4	3.7										
2012	63,631	55%	28,634	500	2,069	27,065	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,558	(7,493)	6,200	(13,693)						
							370	97	747	4,301	804	8	5,135	1.32	759	8,000	245										
							16.0	2.8	5.5	3.6	C	0.06	5.9	0.02	3.4	79.9	3.6										
2013	65,535	55%	29,491	500	2,069	27,922	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	32,917	(4,995)	6,200	(11,195)						
							382	100	771	4,437	8	8	5,298	1.36	783	8,500	253										
							15.9	2.8	5.2	2.2		0.05	C	0.02	3.1	77.2	3.5										
2014	67,741	55%	30,483	700	2,069	29,115	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	19,799	9,316	6,200	3,116						
							398	104	804	4,627	9	9	1.42	817	9,000	264											
							15.7	2.7	5.0	0.7		0.05	0.02	2.9	74.4	3.4											
2015	70,088	55%	31,540	700	2,069	30,171	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	19,872	10,299	6,200	4,099						
							413	108	833	4,795	9	9	1.47	847	9,500	273											
							15.6	2.7	4.7	C		0.05	0.02	2.6	71.5	3.3											
2016	72,392	55%	32,576	700	2,069	31,208	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,943	16,265	6,200	10,065						
							427	112	862		9	9	1.52	876	10,000	283											
							15.5	2.7	4.5			0.04	0.02	2.3	68.3	3.3											
2017	74,025	55%	33,311	700	2,069	31,943	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,993	16,949	6,200	10,749						
							437	115	882		10	10	1.56	896	10,500	289											
							15.3	2.6	4.2			0.04	0.02	2.1	65.1	3.2											
2018	75,844	55%	34,130	700	2,069	32,761	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,050	17,712	6,200	11,512						
							448	117	905		10	10	1.60	919	11,000	297											
							15.2	2.6	3.9			0.04	0.02	1.8	61.6	3.1											
2019	77,706	55%	34,968	700	2,069	33,599	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,107	18,492	6,200	12,292						
							460	120	928		10	10	1.64	943	11,000	304											
							15.1	2.5	3.6			0.04	0.02	1.5	58.2	3.0											
2020	79,395	55%	35,728	700	2,069	34,359	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,159	19,200	6,200	13,000						
							470	123	949		10	10	1.68	964	11,000	311											
							14.9	2.5	3.3			0.03	0.02	1.2	54.8	2.9											
2021	80,909	55%	36,409	700	2,069	35,040	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,239	19,802	6,200	13,602						
							479	126	968		10	10	1.71	983	11,000	350											
							14.8	2.5	3.0			0.03	0.02	0.9	51.3	2.8											
2022	82,463	55%	37,108	700	2,069	35,740	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,280	20,459	6,200	14,259						
							489	128	987		11	11	1.74	1,003	11,000	350											
							14.6	2.4	2.7			0.03	0.02	0.6	47.9	2.7											
2023	84,014	55%	37,806	700	2,069	36,438	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,322	21,116	6,200	14,916						
							498	131	1,006		11	11	1.78	1,022	11,000	350											
							14.4	2.4	2.4			0.02	0.02	0.2	44.5	2.6											
2024	85,666	55%	38,549	700	2,069	37,181	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	15,366	21,815	6,200	15,615						
							509	133	1,027		11	11	1.81	1,043	11,000	350											
							14.3	2.3	2.1			0.02	0.02	C	41.0	2.4											
2025	87,081	55%	39,186	700	2,069	37,818	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,343	23,475	6,200	17,275						
							517	136	1,044		11	11	1.85	1,060	11,000	350											
							14.1	2.3	1.7			0.02	0.02		37.6	2.3											
2026	88,549	55%	39,847	700	2,069	38,479	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,364	24,115	6,200	17,915						
							526	138	1,063		11	11	1.88	1,077	11,000	350											
							14.0	2.3	1.4			0.01	0.02		34.2	2.2											

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
- Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted washed or Expected Average Daily Tonnage for facilities with a restricted washed.

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
- E -Expansion may become effective
- R -Restricted washed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-4
SCENARIO II - INCREASE IN DIVERSION RATE (Up to 65% by 2025)**

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase In Diversion (up to 65% by 2025)

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Total	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)				
							R		R		R		R		R		Daily Available Capacity ² from Class III Landfills					H=F-G	I	J=H-I	
							Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined									Whittier
							Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)																		
A	B	C=A(1-B)	D	E	F=C+D-E	G											H=F-G	I	J=H-I						
(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)											(tpd-6)	(tpd-6)	(tpd-6)						
2011	61,844	55%	27,830	456	1,680	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-				
							364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241								
							16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7								
2012	63,631	55%	28,634	500	2,069	27,065	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,558	(7,493)	6,200	(13,693)				
							370	97	747	4,301	804	8	5,135	1.32	759	8,000	245								
							16.0	2.8	5.5	3.6		C	0.06	5.9	0.02	3.4	79.9	3.6							
2013	65,535	55%	29,491	500	2,069	27,922	1,800	240	3,500	5,000		49	13,200	10	3,400	11,000	350	32,917	(4,995)	6,200	(11,195)				
							382	100	771	4,437		8	5,298	1.36	783	8,500	253								
							15.9	2.8	5.2	2.2			C	0.02	3.1	77.2	3.5								
2014	67,741	55%	30,483	700	2,069	29,115	1,800	240	3,500	5,000		49		10	3,400	11,000	350	19,799	9,316	6,200	3,116				
							398	104	804	4,627		9		1.42	817	9,000	264								
							15.7	2.7	5.0	0.7		0.05		0.02	2.9	74.4	3.4								
2015	70,088	55%	31,540	700	2,069	30,171	1,800	240	3,500	5,000		49		10	3,400	11,000	350	19,872	10,299	6,200	4,099				
							413	108	833	4,795		9		1.47	847	9,500	273								
							15.6	2.7	4.7		C	0.05		0.02	2.6	71.5	3.3								
2016	72,392	56%	31,853	700	2,069	30,484	1,800	240	3,500			49		10	3,400	11,000	350	14,893	15,591	6,200	9,391				
							417	109	842			9		1.49	855	10,000	276								
							15.5	2.7	4.5			0.04		0.02	2.4	68.3	3.3								
2017	74,025	57%	31,831	700	2,069	30,462	1,800	240	3,500			49		10	3,400	11,000	350	14,966	15,496	6,200	9,296				
							417	109	841			9		1.49	855	10,500	350								
							15.3	2.6	4.2			0.04		0.02	2.1	65.1	3.1								
2018	75,844	58%	31,855	700	2,069	30,486	1,800	240	3,500			49		10	3,400	11,000	350	14,967	15,519	6,200	9,319				
							417	109	842			9		1.49	855	11,000	350								
							15.2	2.6	3.9			0.04		0.02	1.8	61.6	3.0								
2019	77,706	59%	31,860	700	2,069	30,491	1,800	240	3,500			49		10	3,400	11,000	350	14,967	15,524	6,200	9,324				
							417	109	842			9		1.49	856	11,000	350								
							15.1	2.6	3.7			0.04		0.02	1.6	58.2	2.9								
2020	79,395	60%	31,758	700	2,069	30,389	1,800	240	3,500			49		10	3,400	11,000	350	14,961	15,428	6,200	9,228				
							416	109	839			9		1.48	853	11,000	350								
							15.0	2.5	3.4			0.03		0.02	1.3	54.8	2.8								
2021	80,909	61%	31,554	700	2,069	30,186	1,800	240	3,500			49		10	3,400	11,000	350	14,949	15,237	6,200	9,037				
							413	108	834			9		1.47	847	11,000	350								
							14.8	2.5	3.2			0.03		0.02	1.0	51.3	2.7								
2022	82,463	62%	31,336	700	2,069	29,967	1,800	240	3,500			49		10	3,400	11,000	350	14,936	15,031	6,200	8,831				
							410	107	827			9		1.46	841	11,000	350								
							14.7	2.5	2.9			0.03		0.02	0.8	47.9	2.6								
2023	84,014	63%	31,085	700	2,069	29,717	1,800	240	3,500			49		10	3,400	11,000	350	14,921	14,795	6,200	8,595				
							407	107	821			9		1.45	834	11,000	350								
							14.6	2.4	2.6			0.03		0.02	0.5	44.5	2.5								
2024	85,666	64%	30,840	700	2,069	29,471	1,800	240	3,500			49		10	3,400	11,000	350	14,907	14,564	6,200	8,364				
							403	106	814			9		1.44	827	11,000	350								
							14.4	2.4	2.4			0.02		0.02	0.2	41.0	2.4								
2025	87,081	65%	30,478	700	2,069	29,110	1,800	240	3,500			49		10	3,400	11,000	350	14,885	14,225	6,200	8,025				
							398	104	804			9		1.42	817	11,000	350								
							14.3	2.4	2.1			0.02		0.02	C	37.6	2.3								
2026	88,549	65%	30,992	700	2,069	29,624	1,800	240	3,500			49		10	11,000	350		14,218	15,405	6,200	9,205				
							405	240	818			9		1.45		11,000	350								
							14.2	2.3	1.9			0.0		0.02		34.2	2.2								

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
- Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C - Closure due to exhausted capacity or permit expiration
- E - Expansion may become effective
- R - Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-4
SCENARIO III - UTILIZATION OF ALTERNATIVE TECHNOLOGY CAPACITY (UP TO 2,300 TPD BY 2021)**

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase In Diversion Rate (up to 65% by 2025)
- Utilization of Alternative Technology Capacity (Up to 2,300 tpd by 2021)

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								IN-COUNTY CLASS III LANDFILLS														
								R	R	R	R	R	R	R	R	R	R	R				
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier				
A	B	C=A(1-B)	D	E	F	G=C+D-E-F	Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)											H	I=G-H	J	K=J	
(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-
								364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241				
								16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7				
2012	63,631	55%	28,634	500	2,069	0	27,065	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,558	(7,493)	6,200	(13,693)
								370	97	747	4,301	804	8	5,135	1.32	759	8,000	245				
								16.0	2.8	5.5	3.6	C	0.06	5.9	0.02	3.4	79.9	3.6				
2013	65,535	55%	29,491	500	2,069	0	27,922	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	32,917	(4,995)	6,200	(11,195)
								382	100	771	4,437	8	5,298	1.36	783	8,500	253					
								15.9	2.8	5.2	2.2	0.05	C	0.02	3.1	77.2	3.5					
2014	67,741	55%	30,483	700	2,069	0	29,115	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	19,799	9,316	6,200	3,116
								398	104	804	4,627	9		1.42	817	9,000	264					
								15.7	2.7	5.0	0.7	0.05		0.02	2.9	74.4	3.4					
2015	70,088	55%	31,540	700	2,069	0	30,171	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	19,872	10,299	6,200	4,099
								413	108	833	4,795	9		1.47	847	9,500	273					
								15.6	2.7	4.7	C	0.05		0.02	2.6	71.5	3.3					
2016	72,392	56%	31,853	700	2,069	0	30,484	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,893	15,591	6,200	9,391
								417	109	842	4,795	9		1.49	855	10,000	276					
								15.5	2.7	4.5	C	0.04		0.02	2.4	68.3	3.3					
2017	74,025	57%	31,831	700	2,069	1,300	29,162	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,802	14,360	6,200	8,160
								399	105	805	4,795	9		1.42	818	10,500	264					
								15.4	2.6	4.2	C	0.04		0.02	2.1	65.1	3.2					
2018	75,844	58%	31,855	700	2,069	1,300	29,186	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,804	14,382	6,200	8,182
								399	105	806	4,795	9		1.42	819	11,000	264					
								15.2	2.6	4.0	C	0.04		0.02	1.8	61.6	3.1					
2019	77,706	59%	31,860	700	2,069	1,300	29,191	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,804	14,386	6,200	8,186
								399	105	806	4,795	9		1.42	819	11,000	265					
								15.1	2.6	3.7	C	0.04		0.02	1.6	58.2	3.0					
2020	79,395	60%	31,758	700	2,069	1,300	29,089	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,797	14,292	6,200	8,092
								398	104	803	4,795	9		1.42	816	11,000	264					
								15.0	2.5	3.5	C	0.03		0.02	1.3	54.8	2.9					
2021	80,909	61%	31,554	700	2,069	2,300	27,886	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,715	13,171	6,200	6,971
								381	100	770	4,795	8		1.36	782	11,000	253					
								14.9	2.5	3.2	C	0.03		0.02	1.1	51.3	2.9					
2022	82,463	62%	31,336	700	2,069	2,300	27,667	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,700	12,967	6,200	6,767
								378	99	764	4,795	8		1.35	776	11,000	251					
								14.7	2.5	3.0	C	0.03		0.02	0.8	47.9	2.8					
2023	84,014	63%	31,085	700	2,069	2,300	27,417	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,683	12,734	6,200	6,534
								375	98	757	4,795	8		1.34	769	11,000	248					
								14.6	2.4	2.7	C	0.03		0.02	0.6	44.5	2.7					
2024	85,666	64%	30,840	700	2,069	2,300	27,171	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,770	12,401	6,200	6,201
								372	97	750	4,795	8		1.33	762	11,000	350					
								14.5	2.4	2.5	C	0.02		0.02	0.4	41.0	2.6					
2025	87,081	65%	30,478	700	2,069	2,300	26,810	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,748	12,062	6,200	5,862
								367	96	740	4,795	8		1.31	752	11,000	350					
								14.4	2.4	2.3	C	0.02		0.02	0.1	37.6	2.5					
2026	88,549	65%	30,992	700	2,069	2,300	27,324	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	14,779	12,545	6,200	6,345
								374	98	754	4,795	8		1.33	767	11,000	350					
								14.3	2.3	2.0	C	0.02		0.02	C	34.2	2.4					

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
- Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
- E -Expansion may become effective
- R -Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-4
SCENARIO IV - IN-COUNTY CLASS III LANDFILLS EXPANSIONS**

- Existing In-County Class III Landfills & Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65% by 2025)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd by 2021)
- Proposed Expansions of In-County Class III Landfills

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								IN-COUNTY CLASS III LANDFILLS														
								R	R	R	R	R	R	R	R	R	R	R				
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier				
A	B	C=A(1-B)	D	E	F	G=C+D-E-F	Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)											H	I=G-H	J	K=J	
(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-
								364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241				
								16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7				
2012	63,631	55%	28,634	500	2,069	0	27,065	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,858	(8,793)	6,200	(14,993)
								370	97	747	4,301	804	8	5,135	1.32	759	8,000	245				
								16.0	2.8	5.5	3.6	12.0	E	0.06	5.9	0.02	3.4	79.9	3.6			
2013	65,535	55%	29,491	500	2,069	0	27,922	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,917	(7,995)	6,200	(14,195)
								382	100	771	4,437	829	8	5,298	1.36	783	8,500	253				
								15.9	2.8	5.2	2.2	11.8	0.05	C	0.02	3.1	77.2	3.5				
2014	67,741	55%	30,483	700	2,069	0	29,115	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	22,799	6,316	6,200	116
								600	104	804	4,627	900	9	1.42	817	9,000	264					
								15.7	2.7	5.0	0.7	11.5	0.05	0.02	2.9	74.4	6.1	E				
2015	70,088	55%	31,540	700	2,069	0	30,171	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,872	299	6,200	(5,901)
								800	108	833	4,795	900	9	1.47	847	9,500	273					
								15.4	2.7	4.7	34.3	E	11.2	0.05	0.02	2.6	71.5	6.0				
2016	72,392	56%	31,853	700	2,069	0	30,484	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,893	591	6,200	(5,609)
								1,000	109	842	5,000	900	9	1.49	855	10,000	276					
								15.1	2.7	4.5	32.7	10.9	0.04	0.02	2.4	68.3	5.9					
2017	74,025	57%	31,831	700	2,069	1,300	29,162	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,802	(640)	6,200	(6,840)
								1,200	105	805	5,000	1,000	9	1.42	818	10,500	264					
								14.7	2.6	4.2	31.2	10.6	0.04	0.02	2.1	65.1	5.8					
2018	75,844	58%	31,855	700	2,069	1,300	29,186	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,804	(618)	6,200	(6,818)
								1,400	105	806	6,000	1,000	9	1.42	819	11,000	264					
								14.3	2.6	4.0	29.3	10.3	0.04	0.02	1.8	61.6	5.7					
2019	77,706	59%	31,860	700	2,069	1,300	29,191	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,804	(614)	6,200	(6,814)
								1,600	105	806	7,000	1,000	9	1.42	819	11,000	265					
								13.8	2.6	3.7	27.1	10.0	0.04	0.02	1.6	58.2	5.6					
2020	79,395	60%	31,758	700	2,069	1,300	29,089	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,797	(708)	6,200	(6,908)
								1,800	104	803	8,000	1,000	9	1.42	816	11,000	264					
								13.2	2.5	3.5	24.6	9.7	0.03	0.02	1.3	54.8	5.6					
2021	80,909	61%	31,554	700	2,069	2,300	27,886	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,715	(1,829)	6,200	(8,029)
								1,800	100	770	9,000	1,000	8	1.36	782	11,000	253					
								12.7	2.5	3.2	21.8	9.4	0.03	0.02	7.1	E	51.3	5.5				
2022	82,463	62%	31,336	700	2,069	2,300	27,667	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,700	(2,033)	6,200	(8,233)
								1,800	99	764	10,000	1,000	8	1.35	776	11,000	251					
								12.1	2.5	3.0	18.7	9.1	0.03	0.02	6.8	47.9	5.4					
2023	84,014	63%	31,085	700	2,069	2,300	27,417	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,683	(2,266)	6,200	(8,466)
								1,800	98	757	11,000	1,000	8	1.34	769	11,000	248					
								11.6	2.4	2.7	15.3	8.8	0.03	0.02	6.6	44.5	5.3					
2024	85,666	64%	30,840	700	2,069	2,300	27,171	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,666	(2,495)	6,200	(8,695)
								1,800	97	750	12,000	1,000	8	1.33	762	11,000	246					
								11.0	2.4	2.5	11.5	8.5	0.02	0.02	6.4	41.0	5.3					
2025	87,081	65%	30,478	700	2,069	2,300	26,810	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,641	(2,831)	6,200	(9,031)
								1,800	96	740	12,000	1,000	8	1.31	752	11,000	243					
								10.4	2.4	2.3	7.8	8.1	0.02	0.02	6.13	37.6	5.2					
2026	88,549	65%	30,992	700	2,069	2,300	27,324	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,676	(2,353)	6,200	(8,553)
								1,800	98	754	12,000	1,000	8	1.33	767	11,000	248					
								9.9	2.3	2.0	4.0	7.8	0.02	0.02	5.89	34.2	5.1					

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
2. Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted washed or Expected Average Daily Tonnage for facilities with a restricted washed.

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
- E -Expansion may become effective
- R -Restricted washed

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

APPENDIX E-4

SCENARIO VI - MAXIMIZING DIVERSION RATE (UP TO 75% BY 2020, COMPLIES WITH AB 341 GOAL)

- Existing In-County Class III Landfills & Transformation Facilities
- Increase In Available Out-of-County Disposal Capacity
- Proposed Expansions of In-County Class III Landfills
- Utilization of Alternative Technology Capacity (up to 2,300 tpd BY 2021)
- Maximizing Diversion Rate up to 75% by 2020

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)	
								IN-COUNTY CLASS III LANDFILLS															
								R	R	R	R	R	R	R	R	R	R	R					
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier					
A	B	C=A(1-B)	D	E	F	G=C+D-E-F	Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)											H	I=G-H	J	K=J		
(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)		
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-	
								364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241					
								16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7					
2012	63,631	57%	27,361	500	2,069	0	25,793	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,771	(9,978)	6,200	(16,178)	
								353	92	712	4,099	766	8	4,894	1.26	724	8,000	234					
								16.0	2.8	5.5	3.6	12.1	E	0.06	6.0	0.02	3.4	79.9	3.6				
2013	65,535	59%	26,869	500	2,069	0	25,301	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,737	(10,437)	6,200	(16,637)	
								346	91	699	4,021	751	8	4,801	1.23	710	8,500	229					
								15.9	2.8	5.3	2.4	11.8	0.05	C	0.02	3.2	77.2	3.5					
2014	67,741	63%	25,064	700	2,069	0	23,696	1,800	240	3,500	5,000	3,000	49	10	3,400	11,000	350	22,427	1,268	7,500	(6,232)		
								324	85	654	3,766	900	7	1.16	665	9,000	215						
								15.8	2.7	5.1	1.2	12.3	0.05	0.02	3.0	74.4	6.1	E					
2015	70,088	65%	24,531	700	2,069	0	23,162	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,390	(6,228)	10,000	(16,228)		
								600	83	640	3,681	900	7	1.13	650	9,500	210						
								15.6	2.7	4.9	35.1	E	12.1	0.05	0.02	2.8	71.5	6.0					
2016	72,392	67%	23,889	700	2,069	0	22,521	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,346	(6,826)	10,000	(16,826)		
								800	81	622	5,000	900	7	1.10	632	10,000	204						
								15.3	2.7	4.7	33.5	11.8	0.05	0.02	2.6	68.3	6.0						
2017	74,025	69%	22,948	700	2,069	1,300	20,279	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,193	(8,913)	10,000	(18,913)		
								1,000	73	560	5,000	1,000	6	0.99	569	10,500	184						
								15.0	2.7	4.5	32.0	11.5	0.05	0.02	2.4	65.1	5.9						
2018	75,844	71%	21,995	700	2,069	1,300	19,326	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,127	(9,801)	10,000	(19,801)		
								1,200	69	534	6,000	1,000	6	0.94	542	11,000	175						
								14.7	2.6	4.3	30.1	11.1	0.04	0.02	2.2	61.6	5.8						
2019	77,706	73%	20,981	700	2,069	1,300	18,312	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,057	(10,745)	10,000	(20,745)		
								1,400	66	506	7,000	1,000	5	0.89	514	11,000	166						
								14.2	2.6	4.2	27.9	10.8	0.04	0.02	2.1	58.2	5.8						
2020	79,395	75%	19,849	700	2,069	1,300	17,180	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	28,980	(11,799)	10,000	(21,799)		
								1,600	62	474	8,000	1,000	5	0.84	482	11,000	156						
								13.7	2.6	4.0	25.4	10.5	0.04	0.02	1.9	54.8	5.7						
2021	80,909	75%	20,227	700	2,069	2,300	16,559	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	28,937	(12,378)	10,000	(22,378)		
								1,800	59	457	9,000	1,000	5	0.81	465	11,000	150						
								13.2	2.6	3.9	22.6	10.2	0.04	0.02	7.8	E	51.3	5.7					
2022	82,463	75%	20,616	700	2,069	2,300	16,947	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	28,964	(12,017)	10,000	(22,017)		
								1,800	61	468	10,000	1,000	5	0.83	476	11,000	154						
								12.6	2.6	3.7	19.5	9.9	0.04	0.02	7.6	47.9	5.7						
2023	84,014	75%	21,003	700	2,069	2,300	17,335	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	28,990	(11,655)	10,000	(21,655)		
								1,800	62	479	11,000	1,000	5	0.85	486	11,000	157						
								12.0	2.5	3.6	16.1	9.6	0.04	0.02	7.5	44.5	5.6						
2024	85,666	75%	21,416	700	2,069	2,300	17,748	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,019	(11,271)	10,000	(21,271)		
								1,800	64	490	12,000	1,000	5	0.87	498	11,000	161						
								11.5	2.5	3.4	12.3	9.3	0.03	0.02	7.3	41.0	5.6						
2025	87,081	75%	21,770	700	2,069	2,300	18,102	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,043	(10,941)	10,000	(20,941)		
								1,800	65	500	12,000	1,000	5	0.88	508	11,000	164						
								10.9	2.5	3.3	8.6	9.0	0.03	0.02	7.1	37.6	5.5						
2026	88,549	75%	22,137	700	2,069	2,300	18,469	1,800	240	3,500	12,000	3,000	49	10	3,400	11,000	350	29,068	(10,599)	10,000	(20,599)		
								1,800	66	510	12,000	1,000	6	0.90	518	11,000	167						
								10.3	2.5	3.1	4.8	8.7	0.03	0.02	7.0	34.2	5.5						

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
2. Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
- E -Expansion may become effective
- R -Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

APPENDIX E-4

SCENARIO VII - INCREASE IN ALTERNATIVE TECHNOLOGY CAPACITY (UP TO 5,000 TPD BY 2026)

- Existing In-County Class III Landfills & Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Increase In Diversion Rate up to 65% by 2025
- Increase In Available Out-of-County Disposal Capacity
- Increase In Alternative Technology Capacity (up to 5,000 tpd BY 2026)

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								R R R R R R R R R R R R														
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier				
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
A	B	C=A(1-B)	D	E	F	G=C+D-E-F	H	I=G-H	J	K=J												
(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)						
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800 364 16.1	240 95 2.8	3,500 735 5.7	5,000 4,228 4.9	1,700 790 0.3	49 7.9 0.06	13,200 5,048 7.6	10 747 0.02	3,400 11,000 3.6	11,000 7,541 82.4	350 241 3.7	34,527	(7,921)	6,092	-
2012	63,631	55%	28,634	500	2,069	0	27,065	1,800 370 16.0	240 97 2.8	3,500 747 5.5	5,000 4,301 3.6	3,000 804 12.0	49 8 0.06	13,200 5,135 5.9	10 1.32 0.02	3,400 759 3.4	11,000 8,000 79.9	350 245 3.6	35,858	(8,793)	6,200	(14,993)
2013	65,535	55%	29,491	500	2,069	0	27,922	1,800 382 15.9	240 100 2.8	3,500 771 5.2	5,000 4,437 2.2	3,000 829 11.8	49 8 0.05	13,200 5,298 C	10 1.36 0.02	3,400 783 3.1	11,000 8,500 77.2	350 253 3.5	35,917	(7,995)	6,200	(14,195)
2014	67,741	55%	30,483	700	2,069	0	29,115	1,800 398 15.7	240 104 2.7	3,500 804 5.0	5,000 4,627 0.7	3,000 900 12.3	49 9 0.05	13,200 1.42 0.02	10 817 2.9	3,400 9,000 74.4	11,000 264 6.1	350 264 E	22,799	6,316	7,500	(1,184)
2015	70,088	55%	31,540	700	2,069	0	30,171	1,800 600 15.5	240 108 2.7	3,500 833 4.7	12,000 4,795 34.3	3,000 900 E	49 9 0.05	13,200 1.47 0.02	10 847 2.6	3,400 9,500 71.5	11,000 273 6.0	350 273 6.0	29,872	299	10,000	(9,701)
2016	72,392	56%	31,853	700	2,069	0	30,484	1,800 800 15.3	240 109 2.7	3,500 842 4.5	12,000 5,000 32.7	3,000 900 11.8	49 9 0.04	13,200 1.49 0.02	10 855 2.4	3,400 10,000 68.3	11,000 276 5.9	350 276 5.9	29,893	591	10,000	(9,409)
2017	74,025	57%	31,831	700	2,069	1,800	28,662	1,800 1,000 15.0	240 103 2.6	3,500 791 4.2	12,000 5,000 31.2	3,000 1,000 11.5	49 9 0.04	13,200 1.40 0.02	10 804 2.1	3,400 10,500 65.1	11,000 260 5.8	350 260 5.8	29,768	(1,106)	10,000	(11,106)
2018	75,844	58%	31,855	700	2,069	1,900	28,586	1,800 1,200 14.6	240 103 2.6	3,500 789 4.0	12,000 6,000 29.3	3,000 1,000 11.1	49 9 0.04	13,200 1.39 0.02	10 802 1.8	3,400 11,000 61.6	11,000 259 5.7	350 259 5.7	29,763	(1,177)	10,000	(11,177)
2019	77,706	59%	31,860	700	2,069	2,000	28,491	1,800 1,400 14.2	240 102 2.6	3,500 787 3.7	12,000 7,000 27.1	3,000 1,000 10.8	49 9 0.04	13,200 1.39 0.02	10 799 1.6	3,400 11,000 58.2	11,000 258 5.6	350 258 5.6	29,756	(1,265)	10,000	(11,265)
2020	79,395	60%	31,758	700	2,069	2,100	28,289	1,800 1,600 13.7	240 101 2.5	3,500 781 3.5	12,000 8,000 24.6	3,000 1,000 10.5	49 8 0.03	13,200 1.38 0.02	10 794 1.4	3,400 11,000 54.8	11,000 256 5.6	350 256 5.6	29,743	(1,453)	10,000	(11,453)
2021	80,909	61%	31,554	700	2,069	3,200	26,986	1,800 1,800 13.1	240 97 2.5	3,500 745 3.3	12,000 9,000 21.8	3,000 1,000 10.2	49 8 0.03	13,200 1.32 0.02	10 757 7.1	3,400 11,000 E	11,000 245 5.5	350 245 5.5	29,653	(2,667)	10,000	(12,667)
2022	82,463	62%	31,336	700	2,069	3,300	26,667	1,800 1,800 12.6	240 96 2.5	3,500 736 3.0	12,000 10,000 18.7	3,000 1,000 9.9	49 8 0.03	13,200 1.30 0.02	10 748 6.9	3,400 11,000 47.9	11,000 242 5.4	350 242 5.4	29,631	(2,964)	10,000	(12,964)
2023	84,014	63%	31,085	700	2,069	3,400	26,317	1,800 1,800 12.0	240 94 2.4	3,500 727 2.8	12,000 11,000 15.3	3,000 1,000 9.6	49 8 0.03	13,200 1.28 0.02	10 738 6.7	3,400 11,000 44.5	11,000 238 5.3	350 238 5.3	29,607	(3,291)	10,000	(13,291)
2024	85,666	64%	30,840	700	2,069	3,500	25,971	1,800 1,800 11.4	240 93 2.4	3,500 717 2.6	12,000 12,000 11.5	3,000 1,000 9.3	49 8 0.02	13,200 1.27 0.02	10 729 6.4	3,400 11,000 41.0	11,000 235 5.3	350 235 5.3	29,583	(3,612)	10,000	(13,612)
2025	87,081	65%	30,478	700	2,069	3,500	25,610	1,800 1,800 10.9	240 92 2.4	3,500 707 2.3	12,000 12,000 7.8	3,000 1,000 9.0	49 8 0.02	13,200 1.25 0.02	10 719 6.2	3,400 11,000 37.6	11,000 232 5.2	350 232 5.2	29,559	(3,949)	10,000	(13,949)
2026	88,549	65%	30,992	700	2,069	5,000	24,624	1,800 1,800 10.3	240 88 2.4	3,500 680 2.1	12,000 12,000 4.0	3,000 1,000 8.7	49 7 0.02	13,200 1.20 0.02	10 691 6.0	3,400 11,000 34.2	11,000 223 5.1	350 223 5.1	29,491	(4,867)	10,000	(14,867)

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
2. Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C - Closure due to exhausted capacity or permit expiration
- E - Expansion may become effective
- R - Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

**APPENDIX E-4
SCENARIO VIII - FULL UTILIZATION OF OUT-OF-COUNTY DISPOSAL CAPACITY**

- Existing In-County Class III Landfills & Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Full Utilization of Out-of-County Disposal Capacity
- Increase In Diversion Rate up to 65% by 2025
- Utilization of Alternative Technology Capacity (up to 2,300 tpd BY 2021)

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)	
								R R R R R R R R R R R R															
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier					
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)															
A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J		
(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)		
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	-	
								364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241					
								16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7					
2012	63,631	55%	28,634	500	2,069	0	27,065	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,858	(8,793)	6,200	(14,993)	
								370	97	747	4,301	804	8	5,135	1.32	759	8,000	245					
								16.0	2.8	5.5	3.6	12.0	E	0.06	5.9	0.02	3.4	79.9	3.6				
2013	65,535	55%	29,491	500	2,069	0	27,922	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,917	(7,995)	6,200	(14,195)	
								382	100	771	4,437	829	8	5,298	1.36	783	8,500	253					
								15.9	2.8	5.2	2.2	11.8	0.05	C	0.02	3.1	77.2	3.5					
2014	67,741	55%	30,483	700	2,069	0	29,115	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	22,799	6,316	7,500	(1,184)	
								398	104	804	4,627	900	9	1,42	817	9,000	264						
								15.7	2.7	5.0	0.7	12.3	0.05		0.02	2.9	74.4	6.1	E				
2015	70,088	55%	31,540	700	2,069	0	30,171	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,872	299	10,000	(9,701)	
								600	108	833	4,795	900	9	1,47	847	9,500	273						
								15.5	2.7	4.7	34.3	E	12.1	0.05		0.02	2.6	71.5	6.0				
2016	72,392	56%	31,853	700	2,069	0	30,484	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,893	591	11,000	(10,409)	
								800	109	842	5,000	900	9	1,49	855	10,000	276						
								15.3	2.7	4.5	32.7	11.8	0.04		0.02	2.4	68.3	5.9					
2017	74,025	57%	31,831	700	2,069	1,300	29,162	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,802	(640)	12,000	(12,640)	
								1,000	105	805	5,000	1,000	9	1,42	818	10,500	264						
								15.0	2.6	4.2	31.2	11.5	0.04		0.02	2.1	65.1	5.8					
2018	75,844	58%	31,855	700	2,069	1,300	29,186	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,804	(618)	13,000	(13,618)	
								1,200	105	806	6,000	1,000	9	1,42	819	11,000	264						
								14.6	2.6	4.0	29.3	11.1	0.04		0.02	1.8	61.6	5.7					
2019	77,706	59%	31,860	700	2,069	1,300	29,191	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,804	(613)	14,000	(14,613)	
								1,400	105	806	7,000	1,000	8	1,42	819	11,000	265						
								14.2	2.6	3.7	27.1	10.8	0.04		0.02	1.6	58.2	5.6					
2020	79,395	60%	31,758	700	2,069	1,300	29,089	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,797	(707)	15,000	(15,707)	
								1,600	104	803	8,000	1,000	8	1,42	816	11,000	264						
								13.7	2.5	3.5	24.6	10.5	0.03		0.02	1.3	54.8	5.6					
2021	80,909	61%	31,554	700	2,069	2,300	27,886	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,714	(1,828)	16,000	(17,828)	
								1,800	100	770	9,000	1,000	8	1,36	782	11,000	253						
								13.1	2.5	3.2	21.8	10.2	0.03		0.02	7.1	E	51.3	5.5				
2022	82,463	62%	31,336	700	2,069	2,300	27,667	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,698	(2,031)	17,000	(19,031)	
								1,800	99	764	10,000	1,000	8	0.50	776	11,000	251						
								12.6	2.5	3.0	18.7	9.9	0.03		0.02	6.8	47.9	5.4					
2023	84,014	63%	31,085	700	2,069	2,300	27,417	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	29,088	(1,672)	18,000	(19,672)	
								1,800	98	757	11,000	1,000	8	0.50	300	11,000	125						
								12.0	2.4	2.7	15.3	9.6	0.03		0.02	6.7	44.5	5.4					
2024	85,666	64%	30,840	700	2,069	2,300	27,171	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	28,473	(1,302)	19,000	(20,302)	
								1,800	40	200	12,000	1,000	7	0.50	300	11,000	125						
								11.4	2.4	2.7	11.5	9.3	0.02		0.02	6.7	41.0	5.3					
2025	87,081	65%	30,478	700	2,069	2,300	26,810	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	28,473	(1,663)	19,000	(20,663)	
								1,800	40	200	12,000	1,000	7	0.50	300	11,000	125						
								10.9	2.4	2.6	7.8	9.0	0.02		0.02	6.6	37.6	5.3					
2026	88,549	65%	30,992	700	2,069	2,300	27,324	1,800	240	3,500	12,000	3,000	49	13,200	10	3,400	11,000	350	28,468	(1,144)	19,000	(20,144)	
								1,800	40	200	12,000	1,000	2	0.50	300	11,000	125						
								10.3	2.4	2.6	4.0	8.7	0.02		0.02	6.5	34.2	5.2					

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
- Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C - Closure due to exhausted capacity or permit expiration
- E - Expansion may become effective
- R - Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

**2011 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN**

APPENDIX E-4

SCENARIO IX - BEST CASE (ALL SOLID WASTE MANAGEMENT OPTIONS CONSIDERED BECOME AVAILABLE)

- Existing In-County Class III Landfills & Transformation
- Full Utilization of Out-of-County Disposal Capacity
- Proposed Expansions of In-County Class III
- Increase In Alternative Technology Capacity (up to 5,000 tpd BY 2025)
- Maximizing Diversion Rate up to 75% by 2020

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Daily Available Capacity ² from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								R R R R R R R R R R R R														
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebble Beach	Puente Hills	San Clemente	Schoil	Sunshine City/County	Whittier				
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
A	B	C=A(1-B)	D	E	F	G=C+D-E-F	1	2	3	4	5	6	7	8	9	10	11	Total	H	I=G-H	J	K=J
(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)											(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2011	61,844	55%	27,830	456	1,680	0	26,606	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,527	(7,921)	6,092	--
								364	95	735	4,228	790	7.9	5,048	1.30	747	7,541	241				
								16.1	2.8	5.7	4.9	0.3	0.06	7.6	0.02	3.6	82.4	3.7				
2012	63,631	57%	27,361	500	2,069	0	25,793	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,771	(9,978)	6,200	(16,178)
								353	92	712	4,099	766	8	4,894	1.26	724	8,000	234				
								24.9	2.8	5.5	3.6	12.1 E	0.06	6.0	0.02	3.4	79.9	3.6				
2013	65,535	59%	26,869	500	2,069	0	25,301	1,800	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	35,737	(10,437)	6,200	(16,637)
								346	91	699	4,021	751	8	4,801	1.23	710	8,500	229				
								24.8	2.8	5.3	2.4	11.8	0.05	C	0.02	3.2	77.2	3.5				
2014	67,741	63%	25,064	700	2,069	0	23,696	1,800	240	3,500	5,000	3,000	49		10	3,400	11,000	350	22,427	1,268	7,500	(6,232)
								324	85	654	3,766	900	7		1.16	665	9,000	215				
								24.7	2.7	5.1	1.2	12.3	0.05		0.02	3.0	74.4	6.1 E				
2015	70,088	65%	24,531	700	2,069	0	23,162	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	29,390	(6,228)	10,000	(16,228)
								600	83	640	3,681	900	7		1.13	650	9,500	210				
								24.5	2.7	4.9	35.1 E	12.1	0.05		0.02	2.8	71.5	6.0				
2016	72,392	67%	23,889	700	2,069	0	22,521	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	29,346	(6,826)	11,000	(17,826)
								800	81	622	5,000	900	7		1.10	632	10,000	204				
								24.3	2.7	4.7	33.5	11.8	0.05		0.02	2.6	68.3	6.0				
2017	74,025	69%	22,948	700	2,069	1,800	19,779	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	29,104	(9,325)	12,000	(21,325)
								1,000	71	546	5,000	1,000	6		0.97	555	10,500	125				
								24.0	2.7	4.5	32.0	11.5	0.05		0.02	2.4	65.1	5.9				
2018	75,844	71%	21,995	700	2,069	1,900	18,726	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,815	(10,089)	13,000	(23,089)
								1,200	67	517	6,000	1,000	6		0.50	300	11,000	125				
								23.6	2.6	4.3	30.1	11.1	0.04		0.02	2.3	61.6	5.9				
2019	77,706	73%	20,981	700	2,069	2,000	17,612	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,780	(11,168)	14,000	(25,168)
								1,400	63	486	7,000	1,000	5		0.50	300	11,000	125				
								23.2	2.6	4.2	27.9	10.8	0.04		0.02	2.2	58.2	5.8				
2020	79,395	75%	19,849	700	2,069	2,100	16,380	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,746	(12,366)	15,000	(27,366)
								1,600	63	452	8,000	1,000	5		0.50	300	11,000	125				
								22.7	2.6	4.0	25.4	10.5	0.04		0.02	2.1	54.8	5.8				
2021	80,909	75%	20,227	700	2,069	3,200	15,659	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,494	(12,835)	16,000	(28,835)
								1,800	63	200	9,000	1,000	5		0.50	300	11,000	125				
								22.1	2.6	4.0	22.6	10.2	0.04		0.02	8.0 E	51.3	5.8				
2022	82,463	75%	20,616	700	2,069	3,300	15,947	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,458	(12,510)	16,000	(28,510)
								1,800	30	200	10,000	1,000	2		0.50	300	11,000	125				
								21.6	2.6	3.9	19.5	9.9	0.04		0.02	7.9	47.9	5.7				
2023	84,014	75%	21,003	700	2,069	3,400	16,235	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,458	(12,223)	16,000	(28,223)
								1,800	30	200	11,000	1,000	2		0.50	300	11,000	125				
								21.0	2.6	3.9	16.1	9.6	0.04		0.02	7.8	44.5	5.7				
2024	85,666	75%	21,416	700	2,069	3,500	16,548	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,458	(11,910)	16,000	(27,910)
								1,800	30	200	12,000	1,000	2		0.50	300	11,000	125				
								20.4	2.6	3.8	12.3	9.3	0.04		0.02	7.7	41.0	5.6				
2025	87,081	75%	21,770	700	2,069	3,500	16,902	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,458	(11,556)	16,000	(27,556)
								1,800	30	200	12,000	1,000	2		0.50	300	11,000	125				
								19.9	2.5	3.7	8.6	9.0	0.04		0.02	7.6	37.6	5.6				
2026	88,549	75%	22,137	700	2,069	5,000	15,769	1,800	240	3,500	12,000	3,000	49		10	3,400	11,000	350	28,458	(12,689)	16,000	(28,689)
								1,800	30	200	12,000	1,000	2		0.50	300	11,000	125				
								19.3	2.5	3.7	4.8	8.7	0.04		0.02	7.5	34.2	5.6				

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2011.
- Daily Available Capacity, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed.

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
- E -Expansion may become effective
- R -Restricted watershed

Source: Los Angeles County Department of Public Works, August 2012.

Appendix E-5 Map of Transfer and Processing Facilities

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Permitted Large Volume Solid Waste Transfer and Processing Facilities in Los Angeles County in 2011

Transfer and Processing Stations

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	American Remedial Technologies	2600 East Imperial Hwy Lynwood, 90262	962	n/a
2	American Waste Transfer Station	1449 West Rosecrans Avenue, Gardena, 90247	2,225	1,549
3	Angelus Western Paper Fibers, Inc.	2474 Porter Street, Los Angeles, 90021	650	(a) 650
4	Bel-Art Waste Transfer Station	2501 East 68th Street Long Beach, 90805	1,500	1,088
5	Bradley East Transfer Station	9227 Tujunga Avenue, Sun Valley, 91352	1,532	854
6	Carson Transfer Station and MRF	321 West Francisco Street, Carson, 90745	5,300	1,242
7	Central LA Recycling & Transfer Station	2201 Washington Boulevard, Los Angeles, 90034	4,025	1,951
8	City of Inglewood Transfer Station	222 West Beach Avenue, Inglewood, 90302	100	(a) 25
9	City of Lancaster Maintenance Yard	46008 North 7th Street West, Lancaster, 93534	100	37
10	City of Santa Monica Transfer Station	2401-2411 Delaware Avenue, Santa Monica, 90404	400	(a) 232
11	Compton Recycling & Transfer Station (Allied/BFI Waste Systems)	2509 West Rosecrans Avenue, Compton, 90220	1,500	647
12	Culver City Transfer/Recycling Station	9255 West Jefferson Boulevard, Culver City, 90232	500	(a) 180
13	East Street Maintenance District Yard	452 San Fernando Road, Los Angeles, 90065	315	(a) 64
14	EDCO Recycling and Transfer	2755 California Avenue, Signal Hill, 90755	1,500	n/a
15	Granada Hills Street MDY	10210 Etiwanda Avenue, Northridge, 91325	450	(a) 43
16	Innovative Waste Control	4133 Bandini Boulevard, Vernon, 90023	1,250	876
17	Mission Recycling/West Coast Recycling	1326 East Ninth Street, Pomona, 91766	300	n/a
18	Mission Recycling/West Coast Recycling	1341 East Mission Boulevard, Pomona, 91766	200	n/a
19	Mission Road Recycling & Transfer Station	840 South Mission Road, Los Angeles, 90033	1,785	845
20	Norwalk Transfer Station	13780 East Imperial Highway, Santa Fe Springs, 90670	100	n/a
21	Paramount Resource Recycling Facility	7230 Petterson Lane, Paramount, 90723	2,450	431
22	Pomona Municipal Direct Transfer Facility	1730 East First Street, Pomona, 91766	150	(a) 150
23	South Gate Transfer Station	9530 South Garfield Avenue, South Gate, 90280	1,000	348
24	Southern Cal. Disposal Co. R. & TS	1908 Frank Street, Santa Monica, 90404	1,056	513
25	Southwest Street MDY	5860 South Wilton Place, Los Angeles, 90047	225	(a) 76
26	Van Nuys Street MDY	15145 Oxnard Street, Van Nuys, 91411	225	(a) 17
27	Western District Satellite Yard	6000 West Jefferson Boulevard, Los Angeles, 90016	149	n/a
Total			29,949	11,818

Footnote: (a) – Average Daily Tonnage are based on 2010 Annual Report.

2011 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Material Recovery Facility (Dirty)

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Athens Services	14048 East Valley Boulevard, Industry, 91746	5,000	2,798
2	Athens Sun Valley MRF	11121 Pendleton Street, Sun Valley, 91352	1,500	207
3	California Waste Services, LLC	621 West 152nd Street, Gardena, 90247	1,000	262
4	City Terrace Recycling Transfer Station	1511-1525 Fishburn Avenue, City Terrace, 90063	700	378
5	Community Recycling & Resource Recovery, Inc.	9147 De Garmo Avenue, Sun Valley, 91352	1,700	(a) 41
6	Downey Area Recycling & Transfer	9770 Washburn Road, Downey, 90241	5,000	440
7	East Los Angeles Recycling And Transfer	1512 North Bonnie Beach Place, City Terrace, 90063	700	544
8	Falcon Refuse Center, Inc.	3031 East "I" Street, Wilmington, 90744	1,850	971
9	Grand Central Recycling & Transfer Station	999 Hatcher Boulevard, Industry, 91744	5,000	(a) 426
10	Puente Hills Materials Recovery Facility	2808 Workman Mill Road, Whittier, 90601	4,400	100
11	Waste Management South Gate Transfer Station	4489 Ardine Street, South Gate, 90280	2,000	362
12	Waste Resource Recovery	357 West Compton Boulevard, Gardena, 90248	500	(a) 277
Total			29,350	6,806

Material Recovery Facility (Clean)

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Allan Company Baldwin Park	14604-14618 Arrow Highway, Baldwin Park, 91706	750	(a) 63
2	City Fibers – West Valley Plant	16714 Schoenborn Street, Los Angeles, 91343	350	n/a
3	City Fibers - LA Plant No. 2	2545 East 25th Street Los Angeles, 90058	300	n/a
4	Los Angeles Express Materials Rec. Fac.	6625 Stanford Avenue, Los Angeles, 90001	207	(a) 142
5	Pico Rivera MRF	8405 Loch Lomand Drive, Pico Rivera, 91660	327	(a) 159
6	Sun Valley Paper Stock MRF and TS	8701 North San Fernando Road, Sun Valley, 91352	750	(a) 300
Total			2,684	664

Footnote: (a) – Average Daily Tonnage are based on 2010 Annual Report.

2011 Annual Report
 Los Angeles County Countywide Integrated Waste Management Plan

Construction and Demolition/Processing²

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Construction and Demolition Recycling	9309 Rayo Avenue, South Gate 90280	3,000	n/a
2	Direct Disposal C & D Recycling	3720 Noakes Street, Los Angeles, 90023	100	(a) 37
3	Looney Bins/East Valley Diversion	11616 Sheldon Street, Sun Valley, 91352	750	261
4	Looney Bins/Downtown Diversion	2424 Olympic Boulevard, Los Angeles, 90021	1,500	396
Total			5,350	694

Composting/Chipping and Grinding Facility²

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Agromin Premium Soil Products	Potrero Canyon Road, Newhall, 91381	199	n/a
2	American Reclamation Chipping and Grinding	4560 Doran Street, Los Angeles, 90039	500	59
3	Burbank Green Waste Transfer Operation	3000 Bel Aire Drive, Burbank, 91504	160	74
4	Foothill Soils, Inc.	22925 Coltrane Ave, Newhall, 91325	144	32
5	GS Brothers, Inc.	20331 South Main Street, Carson, 90745	100	n/a
6	GWS, Inc.	10120 Miller Avenue, South Gate, 90280	200	8
7	Lopez Canyon Environmental Center	11950 Lopez Canyon Road, Los Angeles, 91342	833	n/a
8	North Hills Recycling, Inc.	11700 Blucher Avenue, Granada Hills, 91345	541	385
9	Norwalk Industries Green Waste Operation	13780 East Imperial Highway, Santa Fe Springs, 90670	200	n/a
10	Rent-a- Bin (Chip and Grind Operation)	20745 Santa Clara Street, Canyon Country, 91351	199	125
11	RJ's Alondra Chipping and Grinding Operation	355 W Alondra Blvd., Gardena, CA 90248	200	n/a
12	RJ's Chipping and Grinding Operation	1135 East Florence Avenue, Inglewood, 90302	200	150
13	Van Norman Chipping and Grinding Facility	11701 Blucher Avenue, Granada Hills, CA 91344	385	229
Total			3,831	1,062

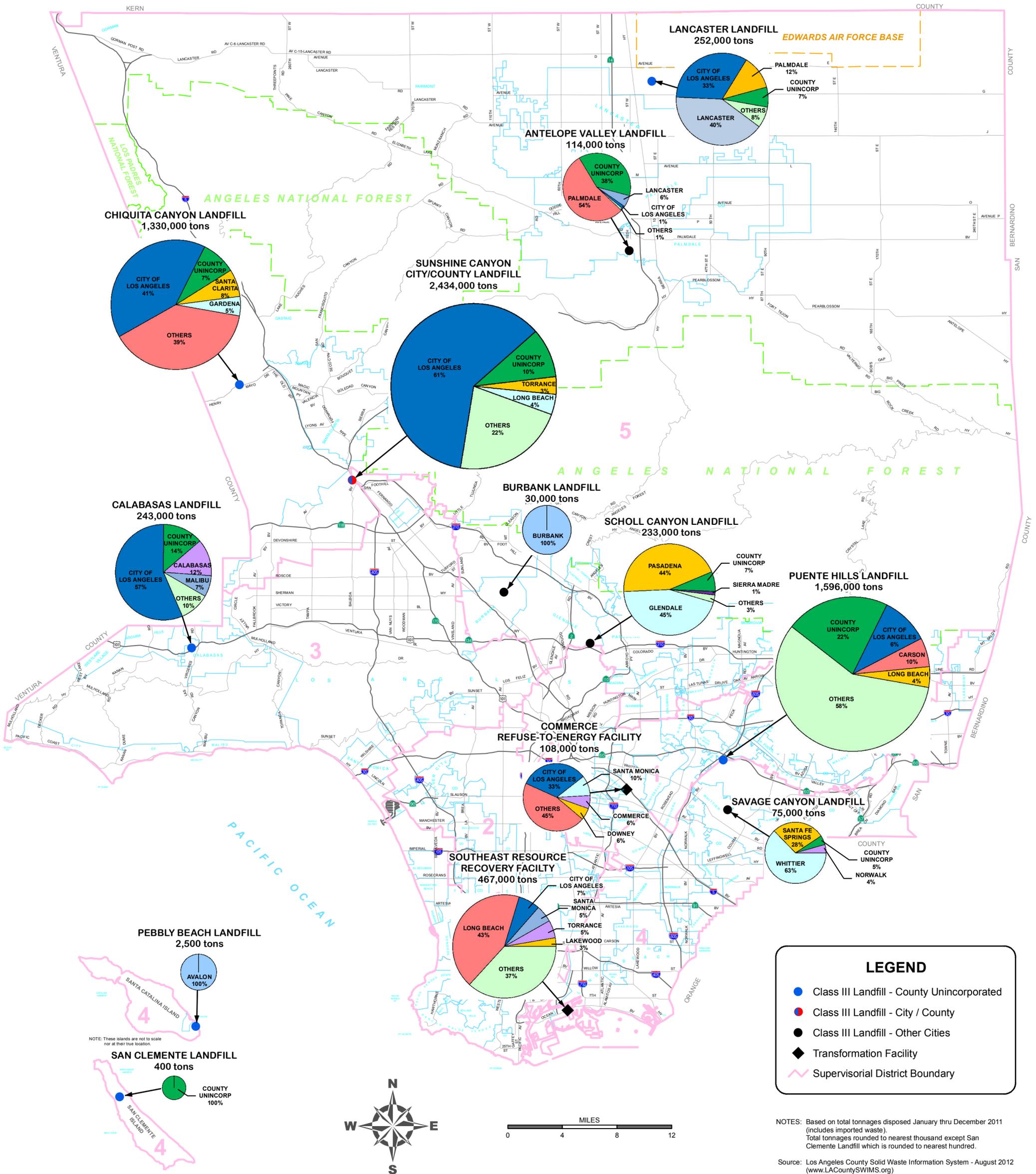
- Notes:
1. Facilities listed are permitted by the CalRecycle as "Large Volume Transfer/Processing" or "Direct Transfer" Facilities with a permitted daily capacity of at least 100 tpd.
 2. Facilities listed are permitted by CalRecycle with a minimum of 100 tpd of permitted capacity or maximum average allowed intake.
 3. "n/a" mean Not Available.

Footnote: (a) Average Daily Tonnage are based on 2010 Annual Report.

Appendix E-6 Map of Landfills



WASTE DISPOSAL BY JURISDICTION OF ORIGIN AT PERMITTED MUNICIPAL SOLID WASTE FACILITIES IN LOS ANGELES COUNTY 2011



LEGEND

- Class III Landfill - County Unincorporated
- Class III Landfill - City / County
- Class III Landfill - Other Cities
- ◆ Transformation Facility
- Supervisorial District Boundary

NOTES: Based on total tonnages disposed January thru December 2011 (includes imported waste). Total tonnages rounded to nearest thousand except San Clemente Landfill which is rounded to nearest hundred.

Source: Los Angeles County Solid Waste Information System - August 2012 (www.LACountySWIMS.org)

DATE: 07/31/2012