

County of Los Angeles
Countywide Integrated Waste Management Plan

**2009
Annual
Report**

**Countywide Summary Plan &
Countywide Siting Element**

County of Los Angeles
Department of Public Works
February 2011





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

February 28, 2011

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

Mr. Mark Leary
Acting Director
California Department of Resources
Recycling and Recovery
Cal/EPA Building
1001 I Street
Sacramento, CA 95812-4025

Dear Mr. Leary,

TRANSMITTAL OF THE 2009 ANNUAL REPORT ON THE LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN SUMMARY PLAN AND SITING ELEMENT ASSESSMENTS

Enclosed is the 2009 Annual Report for the Summary Plan and Siting Element of the Los Angeles County Countywide Integrated Waste Management Plan for your review and approval pursuant to Section 41821 of the Public Resources Code. An electronic copy of the Annual Report is available at www.solidwastedrs.org

The 2009 Annual Report includes a timeline for revising the Siting Element which is anticipated to be completed during the Fall of 2013. Also included are discussions on permit changes, 2009 disposal and generation information with an update on the remaining permitted in-County disposal capacity, and the County's strategy for maintaining adequate disposal capacity through 2024 under seven scenarios. Two of the scenarios evaluate the effect of increasing diversion rates.

The Scenario Analysis demonstrates that the County would meet the disposal capacity requirements of Assembly Bill 939 by successfully permitting and developing all proposed in-County landfill expansions, utilizing available or planned out-of-County disposal capacity, developing the necessary infrastructure to facilitate exportation of waste to out-of-County landfills, and developing conversion and other alternative technologies. Additionally, by continuing to enhance its diversion programs and increasing the Countywide diversion rate the County may further ensure adequate disposal capacity is available through the planning period.

Mr Mark Leary
February 28, 2011
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Considering the significant improvements being made by cities in achieving the 50 percent diversion mandate a revision of the Summary Plan is no longer being contemplated. This is consistent with the findings of the County's Five-Year Review Report dated April 2010 and approved by CalRecycle in August 2010.

If you have any questions regarding the 2009 Annual Report, please contact me at (626) 458-3500 or Mr. Bahman Hajialiakbar of this office at (626) 458-3502, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

A handwritten signature in black ink, appearing to read "Pat Proano", written in a cursive style.

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

WT dy
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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 Solid Waste Management Committee/
Integrated Waste Management Task Force
Each Member of the Los Angeles County Regional Planning Commission

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ACRONYMS AND GLOSSARY OF TERMS

ADC	Alternative Daily Cover
CT	Conversion Technology
CSE	Countywide Siting Element (Siting Element)
CUP	Conditional Use Permit
EIR	Environmental Impact Report
FOC	Finding of Conformance
IDEOF	Inert Debris Engineered Fill Operation
LEA	Local Enforcement Agency
MSW	Municipal Solid Waste
Public Works	Los Angeles County Department of Public Works
Sanitation Districts	Sanitation Districts of Los Angeles County
Siting Element	Los Angeles County Countywide Siting Element (CSE)
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

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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 and a Countywide Siting Element (CSE). Subsequently, the Disposal Reporting System (DRS) was established to estimate 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 Los Angeles County Countywide Integrated Waste Management Summary Plan (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 goal 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 address their long-term disposal capacity demand

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 which summarizes the changes that have been made to Summary Plan and the CSE since its last approval 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 5) for a discussion of the Summary Plan.

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SUMMARY PLAN

The Summary Plan, which was prepared and administered by the County, describes the steps to be taken by jurisdictions, acting independently and in concert, to achieve the 50 percent waste diversion mandate. The County is currently conducting a five-year review of the Countywide Integrated Waste Management Plan. Based on the findings of the review, a determination will be made regarding the need to update the Summary Plan with consideration given towards the cities' and County's significant achievements in waste reduction over the last several years.

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. In 2009, 71 out of 74

jurisdictions¹ in the County are in compliance with the requirements of AB 939 (that is, these jurisdictions meet or exceed the 50 percent waste reduction goal or receive a "Good Faith Effort" determination from CalRecycle. Jurisdictions that are in compliance comprise about 98 percent of the total Countywide waste stream.



Thanks to these increased efforts, the Countywide diversion rate for 2006 is estimated at 58 percent. This high level of success constitutes evidence of the effectiveness of the goals and policies identified in the individual jurisdictions' waste reduction planning documents as well as the Summary Plan.

The Summary Plan was approved by CalRecycle in 1999 and a number of changes have occurred since then.

Regional solid waste management, demographics, and public awareness of environmental stewardship, have changed and evolved. At the same time, the County and cities continue to adjust, enhance, and expand their waste reduction efforts in response to changing conditions.

¹ 74 jurisdictions when considering LARA as a single jurisdiction.

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There are emerging issues, such as the need for statewide markets for recyclable materials, product stewardship, alternative technology, and diversion credit for such technology, that need to be addressed in order to maintain and build upon the successful efforts of local jurisdictions. These issues, which have been discussed in the report, may need to be addressed through appropriate Statewide legislation, regulations, and/or policies.

In 2009, a Five-year review of the CSE and Summary Plan was conducted and concluded that the CSE should be revised. Considering the significant improvements being made by cities in achieving the 50 percent diversion mandate a revision of the Summary Plan is no longer being contemplated. This is consistent with the findings of the County's Five-Year Review Report dated April 2010 and approved by CalRecycle in August 2010. The following 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.



REGIONAL SOLID WASTE ISSUES

Disposal Down Due to Economy

Recent economic downturn has weakened consumer demand for materials, impacted the construction industry, and slowed the production and manufacturing of goods.

As a result, the amount of waste that businesses and the general public generated as well as disposed of was also impacted. Figure 1 and Figure 2 show the downward disposal trend for Los Angeles County and selected facilities from 2007 to 2009. The decline has continued into 2010.

Figure 1: Disposal Trend

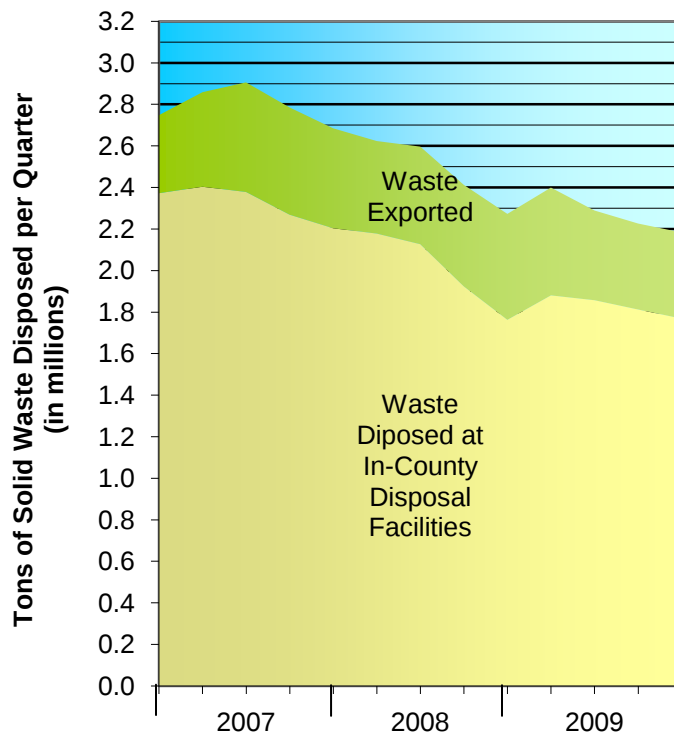
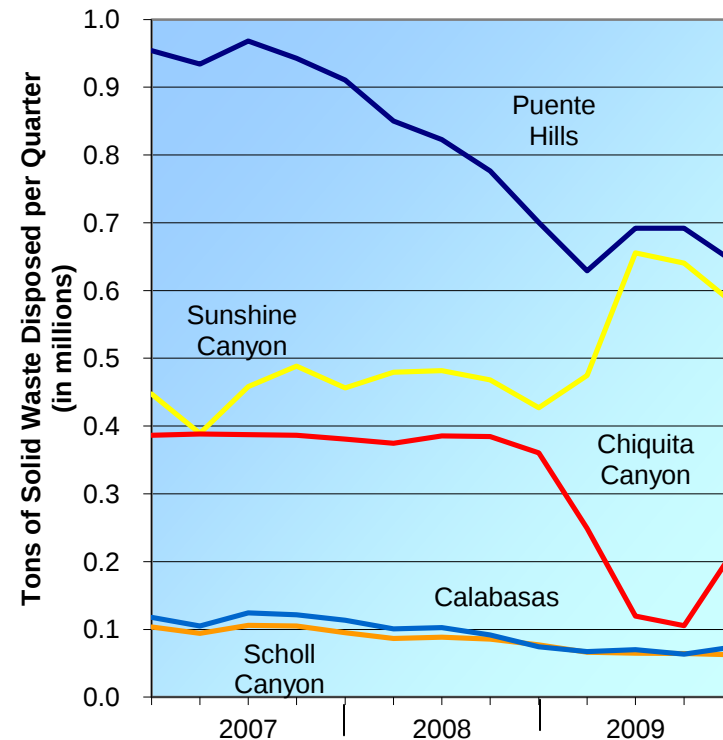


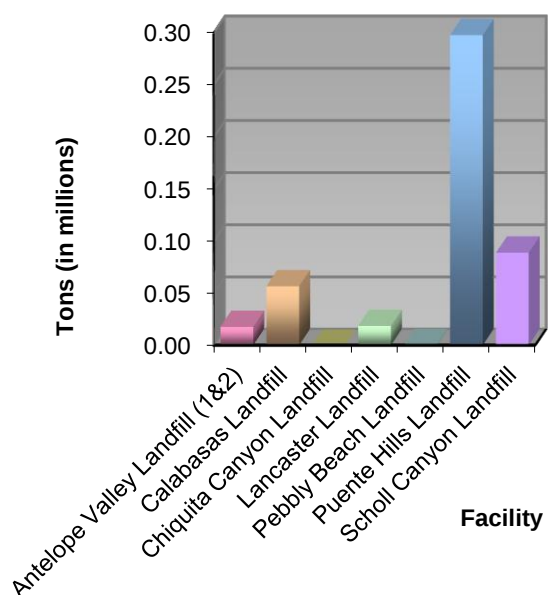
Figure 2: Disposal Trend at Major Landfills



Green Waste as Alternative Daily Cover

As the closure of Puente Hills Landfill in 2013 draws near, jurisdictions that currently depend on the diversion credit derived from using green materials as alternative daily cover (ADC) in Puente Hills Landfill must develop other solutions to meet their diversion goals. As shown in Figure 3, Puente Hills Landfill claimed nearly half of the green material ADC in the County in 2009. Of the 479,355 tons of greenwaste ADC used in in-County landfills, Puente Hills Landfill alone claims 62 percent, or 297,343 tons, which is equivalent to an average of 953 tons per day (tpd-6).

Figure 3: Use of Green Waste as ADC in 2009



In addition, Puente Hills Landfill's closure could result in the disposal of green waste. First, the processing capacity for green waste in the County is inadequate. Second, there is a limited market for compost made from green waste due to difficulties encountered in permitting and developing these types of facilities, as well as the cost of transportation long distances to existing processing facilities and markets. Cities, Counties, and other stakeholders are exploring alternatives for the proper management of greenwaste in the aftermath of the Puente Hill Landfill closure.

Projected Shortfall of Available Permitted Disposal Capacity

As detailed in Strategy for Maintaining Adequate Disposal Capacity (page 29), under current conditions, there will be a shortage of permitted solid waste disposal capacity in the County. As a solution, jurisdictions in the County need to further enhance its waste reduction and diversion efforts, continue strategy to encourage development of alternative technologies such as conversion Technology and waste-to-energy facilities, encourage further development of in-county Landfills, adopt policies which promote and support the use of out-of-county facilities such as Mesquite Regional Landfill, as well as the siting or expansion of processing facilities in areas where processing capacity is inadequate will help in reducing disposal demand and further enhance waste diversion activities. It is imperative that jurisdictions and stakeholders collaborate to overcome obstacles and properly address public concerns as well as ensure that these facilities maintain high environmental standards.

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Los Angeles County's Conversion Technology Efforts

The County and the Task Force are leading the effort to research, promote, and develop alternatives to landfills, including conversion technologies. Development of Conversion Technology as alternatives to landfills is one of the key strategies for managing Solid Waste. The term Conversion Technologies (CTs) refers to an array of state-of-the-art technologies capable of converting post-recycled residual solid waste into useful products, including renewable and environmentally benign fuels, chemicals, marketable products, and other sources of clean energy. These technologies are a reflection of our technological advances and a way to improve our quality of life and the environment. Conversion technologies would reduce our dependence on landfilling while complying with strict environmental standards and up-front recovery of recyclable materials prior to the conversion process.

In 1999, pursuant to recommendations by the Task Force, the County in concert with the Task Force has been actively investigating and promoting the development of CTs including sponsoring and supporting State legislation. In addition, in January 2004, the Board of Supervisors established the

Alternative Technology Advisory Subcommittee (Subcommittee) of the Task Force to be responsible for evaluating and promoting the development of CTs in Los Angeles County. Members of the Subcommittee include representatives from CalRecycle, governmental agencies, community representatives, and private sector experts.



In August 2005, the Task Force adopted the Conversion Technology Evaluation Report (Phase I Report) recommending the development of one or more demonstration CT facilities in Southern California in order to gain real world knowledge regarding these technologies and their ability to manage post-recycled residual solid waste. The data and real world operating experience showcased by these facilities

would be helpful to decision makers and regulators in formulating public policy regarding the future development of CTs.

The proposed facilities would be co-located with a transfer/processing facility to realize the benefits of synergy, including reduced transportation costs and reduction in

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emissions and greenhouse gases along with other reduced environmental impacts.

In July 2006, the County initiated Phase II, which represents the County and Task Force's continued efforts to facilitate development of a CT demonstration facility in Southern California. Key Phase II activities included:

An independent evaluation and verification of the qualifications of selected technology suppliers and the capabilities of their CTs; An independent evaluation of candidate transfer/processing facility sites to determine suitability for integration with one or more technologies; A review of permitting pathways; Identification of funding opportunities and financing mechanisms; and Identification of potential County incentives to encourage facility development among potential project sponsors.

These activities are described in detail in the Conversion Technology Evaluation Report: Phase II Assessment adopted by the Task Force in October 2007. Phase II identified four technology suppliers that have demonstrated the technical capabilities of their CTs to process municipal solid waste (MSW) and are ready for participation in this project. Additionally, four of the transfer/processing facility sites evaluated were determined suitable for co-location with a CT.

On January 17, 2008, the County issued a Request for Offers to all shortlisted development teams, which are those technology

suppliers and transfer/processing facility owners/operators



vetted through the Phase II process. In the fall of 2008, the Subcommittee and County began negotiations with each development team.

On April 20, 2010 the Los Angeles County Board of Supervisors unanimously gave the green light to three demonstration projects. They include an anaerobic digestion project operated by Arrow Ecology and Engineering and CR&R in Perris, a gasification project operated by Entech Renewable Energy Solutions and Rainbow Disposal Co., Inc. in Huntington Beach and a pyrolysis project operated by International Environmental Solutions and Burrtec Industries in unincorporated Riverside. Additional project sites are also being identified in Los Angeles County.

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The Task Force and the County recommend that CalRecycle continue to work with stakeholders to clarify the definition of CTs via regulations and State law so that their place in the waste management hierarchy is consistent with their measured environmental and societal benefits. CalRecycle's sponsored studies have confirmed the need to actively promote these technologies since they represent an environmentally preferable method of managing residual solid waste. These studies highlighted the environmental benefits of these technologies including a reduction in greenhouse gases and other emissions.

City of Los Angeles' Alternative Technology Efforts

In addition to the County's CT initiatives, the City of Los Angeles is also working on a plan to develop a number of alternatives to landfilling which the City refers to as alternative technologies. These technologies include CTs as well as combustion technologies or waste-to-energy (WTE) facilities.

Adopted in 2006, RENEW LA is a planning document detailing Los Angeles City's plan to strive for zero waste by 2025. Within RENEW LA, developing CT facilities is a key component in reaching the City's zero waste goals. RENEW LA predicts that by 2025 the

City of Los Angeles will have seven operational CT facilities with a capacity of up to 3,000 tpd per facility for a total anticipated capacity of 14,500 tpd throughout the six major wastesheds within the City. Although RENEW LA primarily focuses on new state-of-the-art CTs, it does acknowledge that advancements have been made in traditional WTE facilities.

In 2005, the City of Los Angeles Bureau of Sanitation published a report entitled Evaluation of Alternative Solid Waste Processing Technologies. The report evaluates alternative technologies, including "advanced thermal recycling" technologies or WTE facilities. Because RENEW LA and the City Sanitation Bureau's report do not distinguish between WTE facilities and other CT facilities, the term alternative technologies is used in this report to refer to all proposed alternative-to-landfilling initiatives within the County, including the County's CT initiatives.



On February 7, 2007, the City of Los Angeles released a Request for Proposals soliciting competitive proposals for a development partner(s) for processing MSW utilizing alternative technologies premised on resource recovery. The development partners' responsibilities will

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be to finance, design, build, own, and operate (with the option to transfer to the City after 20 years) the alternative technology facility, at a throughput rate of 200-1,000 tpd. The facility was expected to divert from landfills no less than 80 percent of the “black-bin” material delivered to the facility. In addition, the City considered proposals from emerging/ experimental technologies that could process less than 200 tpd as a potential second facility for testing what the City refers to as “emerging technologies.” The emerging/experimental technology suppliers were to meet requirements outlined by the City in the Request for Proposals in order to be considered for the potential testing facility. A total of 12 technology suppliers submitted applications in August 2007. Four proposals met the requirement, including three WTE technologies and one anaerobic digestion technology. The three WTE proposals were categorized as commercial projects, and the anaerobic digestion technology will be considered in both the commercial and emerging technology categories. The Bureau of Sanitation is currently moving forward in negotiations with Arrow Ecology and Engineering and CR&R, as the selected anaerobic digestion technology, which is also the project selected by Los Angeles County. A decision in the commercial category has not been made yet.

Market for Recovered Materials

The County recommends CalRecycle to continue its efforts to address the need to develop sufficient Statewide markets and continue taking a leadership role in the expansion of markets for recycled products, including supporting legislative proposals

to place more responsibility on manufacturers to manage their products at the end of their useful life. These efforts are of greater necessity due to the recent drastic decline in the market value of recyclable materials.

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 China and other foreign countries as markets for our recyclable materials, where there are substantially inadequate environmental controls for processing these materials.

Whereas recycling is an important element of our integrated solid waste management system and is valuable in reducing our dependence on landfills, recycling efforts focusing on collection of materials without developing a strong market demand for diverted materials will ultimately not succeed.



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 14) for a summary of the changes in the remaining disposal capacity facility. Detailed description of each facility is provided in **Appendix E-1**.

[✓] **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 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 out-of-County landfills. Please see **Strategy for Maintaining Adequate Disposal Capacity** (page 29) for the discussion and time schedule for revising the Siting Element. Detailed data is provided in **Appendix E-3 and E-4**. Note that due to the structure of this report, **Appendix E-5** is not related to this discussion

REVISION OF SITING ELEMENT

As mandated by AB 939, the CSE established goals, policies, and strategies for the County to maintain adequate permitted disposal capacity for a 15-year planning period. To provide this needed disposal capacity, the CSE identified locations in the County which may be potentially suitable for development of solid waste landfills. Available out-of-County landfills to accept waste generated in the County were 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.

Since the CSE was approved by CalRecycle on June 24, 1998, significant changes have occurred in the permitting status of some facilities.

As detailed in the Five-Year Review Report, approved by CalRecycle September 21, 2004, the changes include:

- ❖ Removal of Elsmere and Blind Canyons as potential new landfill sites in accordance with the Board of Supervisors' decision;
- ❖ Re-evaluating the goals and policies to ensure an efficient and effective solid waste management system that meets the changing needs of today's residents and businesses of the County;
- ❖ Promote development of alternative technology facilities;

- ❖ Promote development of necessary infrastructure to facilitate exportation of waste to out-of-County landfills.

In August 2010, CalRecycle approved the County's Five Year Review Report, which provides a comprehensive analysis of the continuing adequacy of the planning waste management documents. The Five-Year Review Report confirmed the need to revise the CSE. Public Works continues to work with the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force in revising the CSE. Upon completion of the revision process, the revised CSE and its environmental document will undergo a review and approval process in compliance with numerous statutory and regulatory requirements. This includes review and approval by cities in Los Angeles County, the County Board of Supervisors, and CalRecycle.

The goal is to complete the entire revision process and submit the final draft CSE and the environmental document to CalRecycle by Fall 2013, assuming: 1) no major delays in the project contract deliverables; 2) prompt review and approval of the preliminary and final draft CSE and environmental documents by appropriate agencies and stakeholders, County Board of Supervisors, and CalRecycle; and 3) public and cities' review, and local adoption by cities and the County occur within the statutory and regulatory prescribed timelines.

PERMIT CHANGES

Expanded Facilities

Antelope Valley Recycling and Disposal Facility

The Antelope Valley Recycling and Disposal facility is owned and operated by Waste Management of California, Inc. On June 12, 1997, CalRecycle issued a Solid Waste Facility Permit (SWFP) for the expansion project. The expansion to Landfill Unit II increased disposal capacity by 6.8 million tons and increased the daily capacity to 1,800 tpd. The expansion area was annexed by the City of Palmdale on August 27, 2003. Refer to **Appendix E-1** for more detailed information.

Pebbly Beach Landfill

The Pebbly 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 Pebbly 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 Conditional Use Permit (CUP) on December 18, 2002 and limited the life of the project to October 31, 2013. The Task Force granted a Finding of Conformance (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. Refer to **Appendix E-1** for more detailed information.

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Sunshine Canyon County Landfill

The Landfill is located within the County unincorporated area under the jurisdiction of the County. It is also owned and 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. Refer to **Appendix E-1** for more detailed information.

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

Antelope Valley Recycling and Disposal Facility Expansion

In 2005, Waste Management filed an application with the City of Palmdale for Consolidation of Landfill Unit 1 and Landfill Unit 2 and Landfill expansion into the "Bridge Area". The proposed expansion would result in an additional 8.96 million tons of capacity and add approximately 13 years of life to the landfill at

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the maximum permitted rate of disposal of 1,800 tpd. Waste Management anticipates the expansion to become operational in the next couple years. A draft EIR was released for public comments on May 24, 2010. Refer to **Appendix E-1** for more detailed information.

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 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. The expansion proposal is currently pending, to be pursued by the new owner. 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. Waste Management submitted an application for a new CUP, which is in the review process. Waste Management proposes to increase the daily permitted disposal capacity from 1,700 tpd to 3,000 tpd and extend the 2012 closure date to when the landfill reaches permitted capacity. A draft EIR for

the project was released to the public for comment. Refer to **Appendix E-1** for more detailed information.

Peck Road Gravel Pit Expansion

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 SWFP for the expansion is currently under review. The expansion area covers approximately 41 acres, immediately adjacent to the existing permitted area. 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. Refer to **Appendix E-1** for more detailed information.

Brand Park Landfill

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

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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.

Proposed Out-of-County Landfills

The Sanitation Districts proposes two out-of-County landfills to receive a portion of the County's waste via rail: the Mesquite Regional Landfill and the Eagle Mountain Landfill. Refer to **Out-of-County Disposal Facilities** (page 40) and **Appendix E-1** for more detailed information.



DISPOSAL ANALYSIS FOR 2009

Solid Waste Disposal

In 2009, residents and businesses in the County disposed of 9.09 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 87,390 tons. The following is a breakdown of disposal amounts at each type of disposal facility.



Annual Disposal Tonnage for 2009

In-County Class III Landfills	6,778,746	tons
Transformation Facilities	537,012	tons
Exports to Out-of-County Landfills	1,779,290	tons
Subtotal MSW Disposed	9,095,048	tons
Permitted Inert Waste Landfills	87,390	tons
Grand Total Disposed	9,182,438	tons

Average Daily Disposal Rate for 2009 (Based on Six Operating Days)

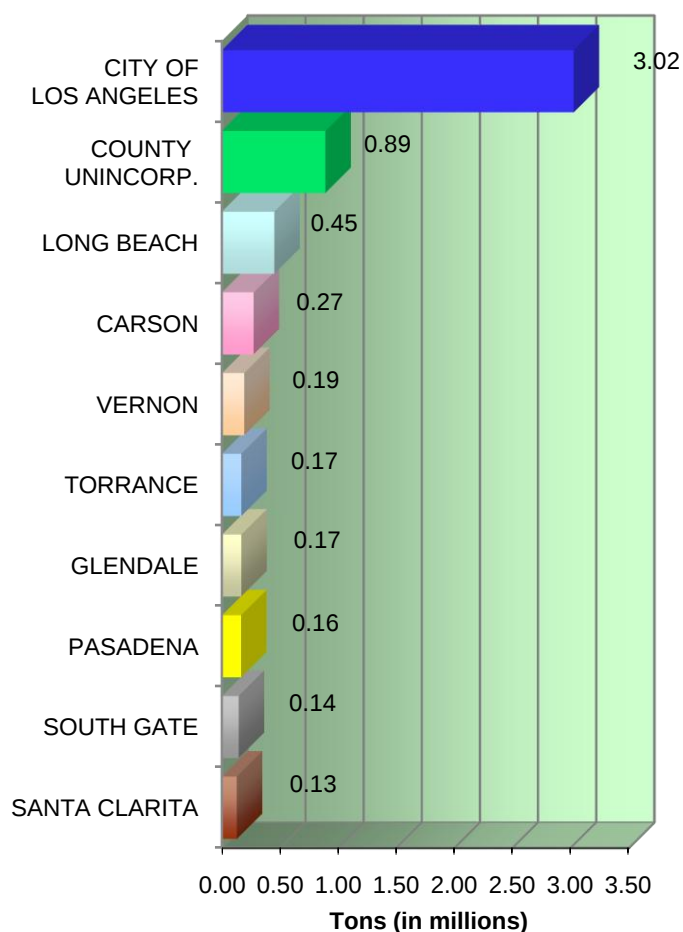
In-County Class III Landfills	21,727	tpd
Transformation Facilities	1,721	tpd
Exports to Out-of-County Landfills	5,703	tpd
Subtotal MSW Disposed	29,151	tpd
Permitted Inert Waste Landfills	280	tpd
Grand Total Disposed	29,431	tpd

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The figure 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 2009.

Figure 4: Top 10 Jurisdiction Disposal Quantities in 2009



Waste Generation

Based on each jurisdiction's approved diversion rate by CalRecycle, the 2006 Countywide diversion rate is estimated at 58 percent. For the purpose of long-term disposal capacity planning, a conservative diversion rate of 55 percent will be assumed for 2009. Therefore, given 9.09 million tons were disposed, it is estimated that the County generated 20.2 million tons or an average of 64,700 tpd based on six operating days per week. Translating it into per capita generation rate, each person in the County generated 10.64 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.

2009 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 2009 Solid Waste Generation*
Class III Landfills	Transformation Facilities				
TONS	TONS	TONS	TONS	%	TONS
6,778,746	537,012	1,779,290	9,095,048	55	20,211,219
* 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:	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 2024.				

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. Instead, per capita disposal equivalent is calculated using an approved jurisdiction-specific average of per capita generation rates of years 2003 to 2006. Jurisdictions are given individual targets and reviewed case by case. Based on current projections of population, employment, and real taxable sales, it is estimated that in order to meet the per capita disposal requirements, jurisdictions in Los Angeles County would need to continue its diversion programs as well as other disposal strategies so that the diversion rate remains at 55 percent through 2024, as shown in Figure 5. Refer to **Appendix E-3** for detailed data.

Figure 5: Disposal Projection for Countywide Areas



Waste Disposal at In-County Facilities

In addition to the in-County waste, the Class III landfills, permitted inert waste landfills, and transformation facilities in the County also received 103,000 tons, or 330 tpd, of waste from outside the County. The figure to the right shows the total amount of solid waste disposed at each Class III landfill and transformation facility, including waste generated from in and outside the County. Refer to **Appendix E-2 Table 1** for detailed data.

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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. The chart below quantitatively illustrates these activities.

Figure 6: Disposal Quantities by Facility in 2009

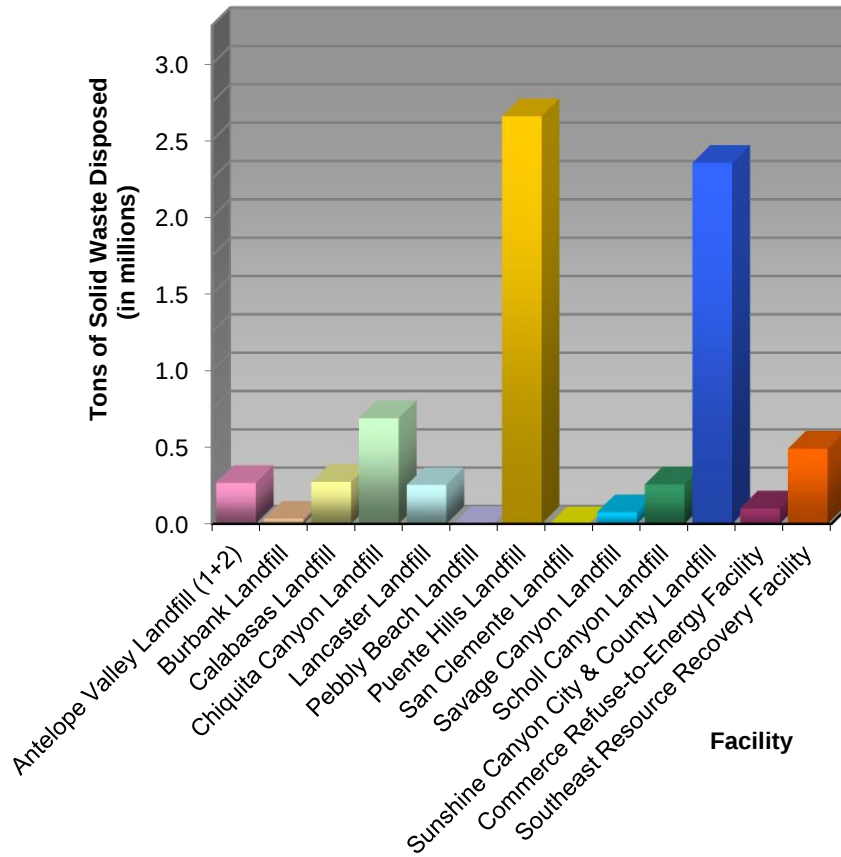


Figure 7: Solid Waste at in-county landfills (tons)

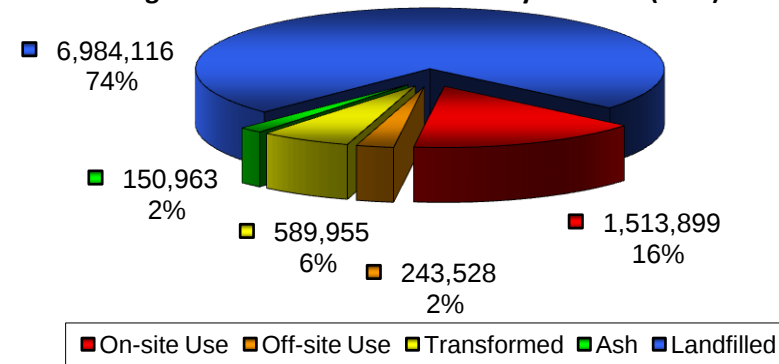
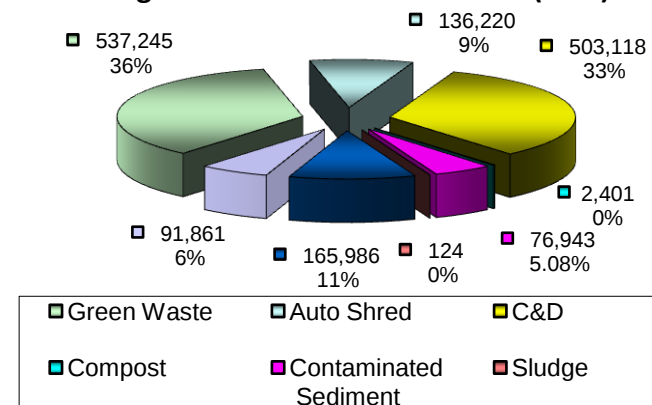


Figure 8: On-site Beneficial Use (tons)



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The various types of materials recycled or beneficially used on-site at Class III landfills are further broken down. Figures 8 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

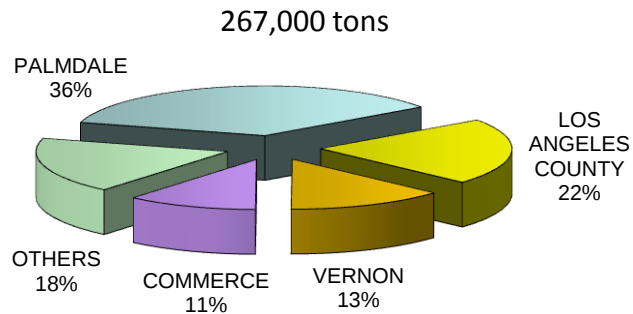


Figure 10: Burbank Landfill

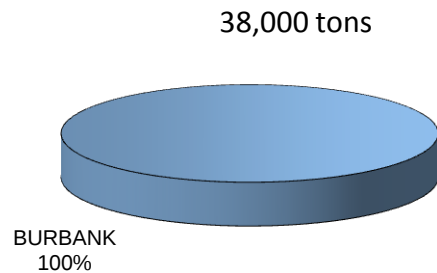


Figure 11: Calabasas Landfill

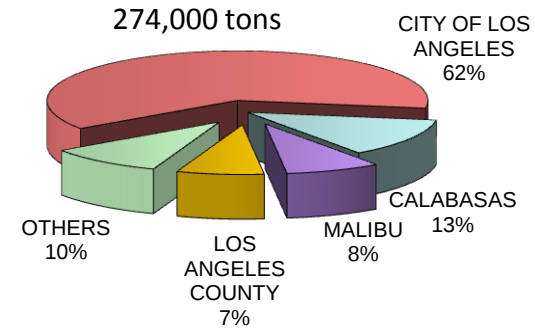


Figure 12: Chiquita Canyon Landfill

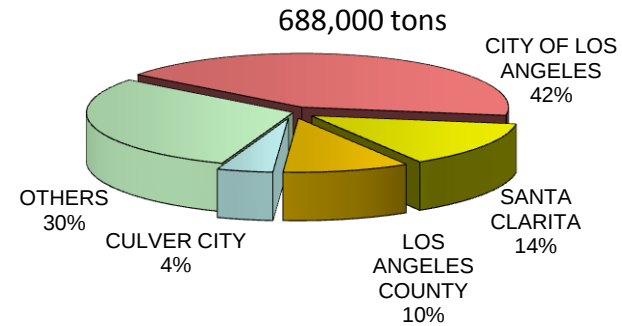
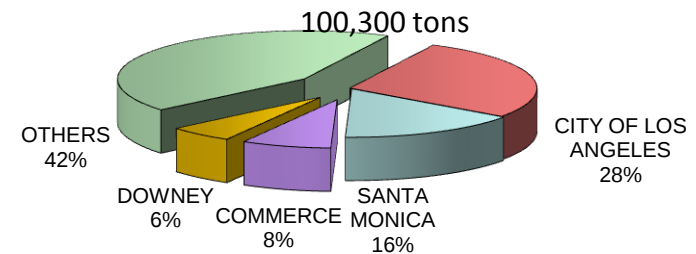


Figure 13: Commerce Refuse-to-Energy Facility



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Figure 14: Lancaster Landfill

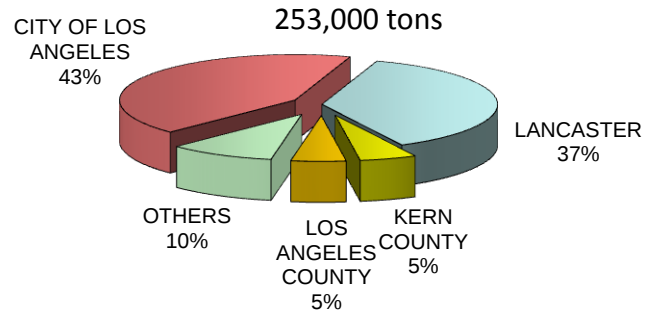


Figure 17: San Clemente Landfill

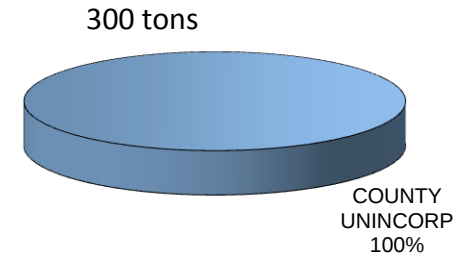


Figure 15: Pebbly Beach Landfill

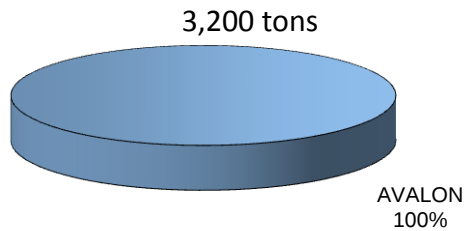


Figure 18: Savage Canyon Landfill

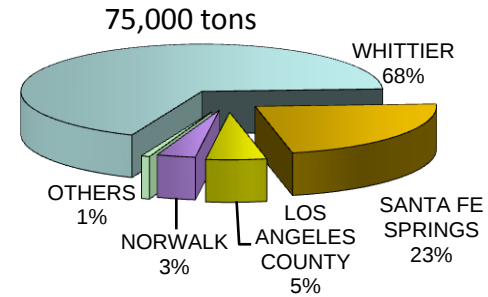


Figure 16: Puente Hills Landfill

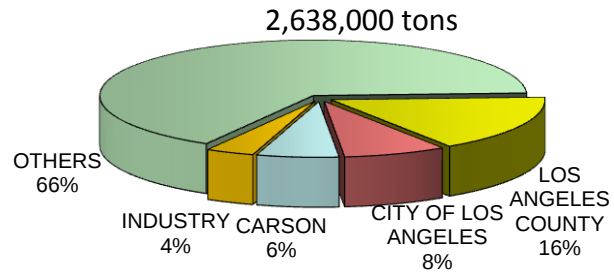
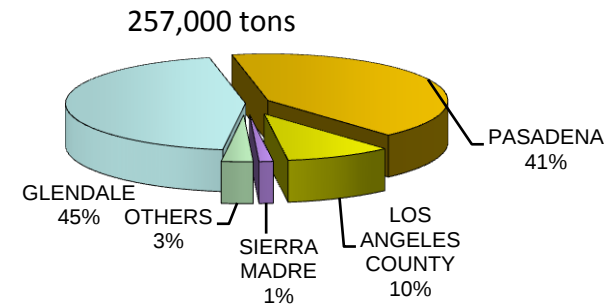


Figure 19: Scholl Canyon Landfill



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Figure 20: Southeast Resource Recovery Facility

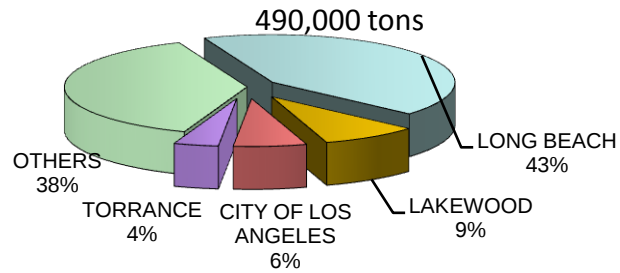
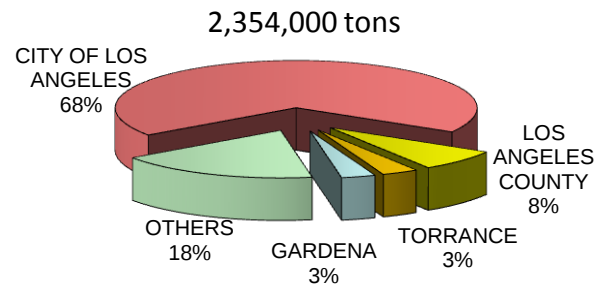


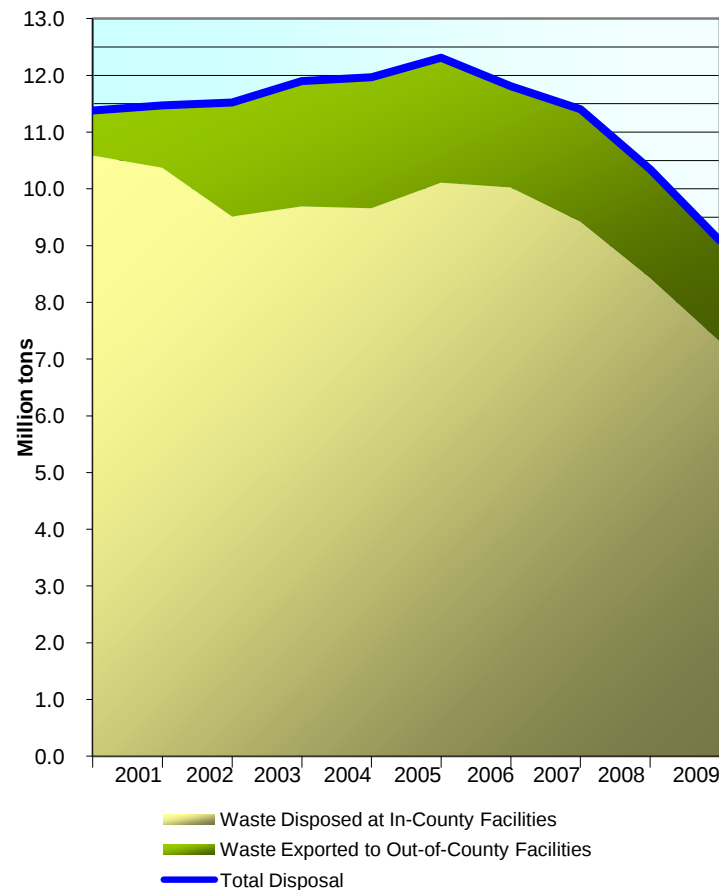
Figure 21: Sunshine Canyon City/County Landfill



Disposal Trend

The following figure shows the historical solid waste disposal quantities at in-County Class III landfills and transformation facilities, and exports to outside the County.

Figure 22: Disposal Trend

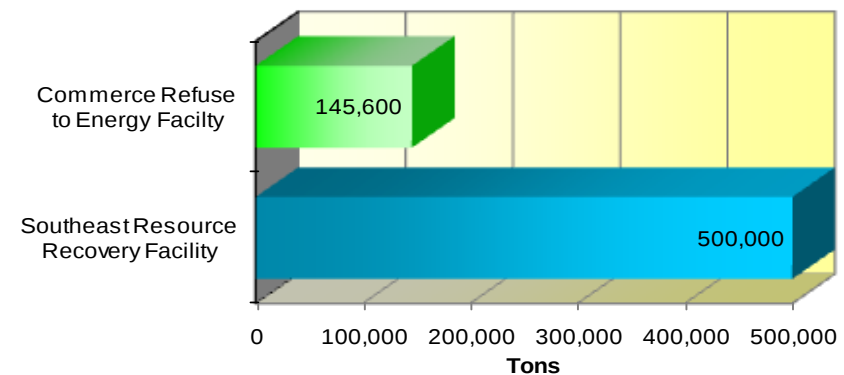


Remaining Disposal Capacity at End of 2009

Transformation Facilities

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

Figure 23: Transformation Facility Annual Permitted Capacity



It is expected that these two facilities will continue to operate at their current permitted daily capacity during the planning period of 2010 through 2024. The owners and operators of these facilities indicate that there are no plans to increase the permitted daily capacity.

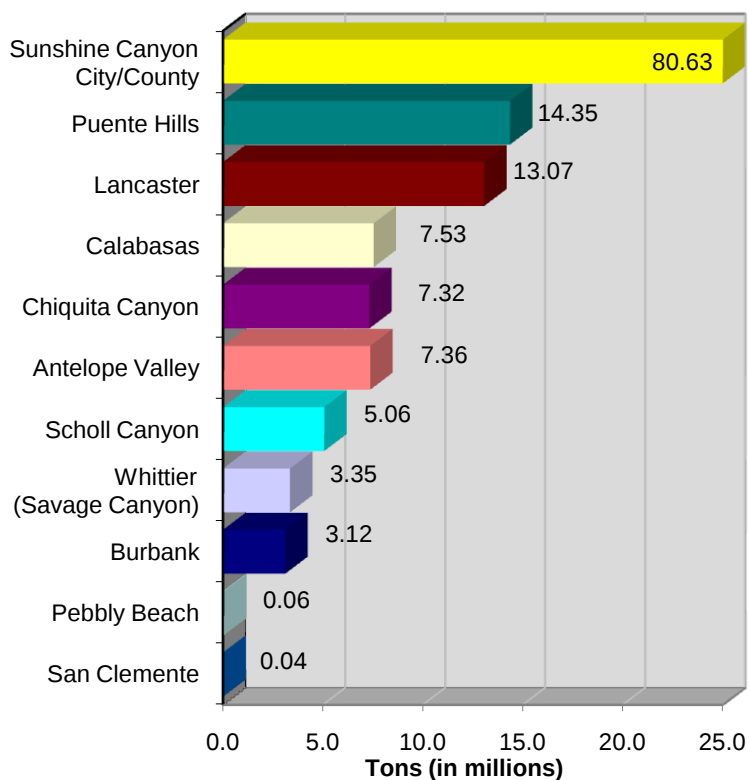
Class III Landfills

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, the total remaining permitted Class III landfill capacity in the County is estimated at 142 million tons as of December 31, 2009.

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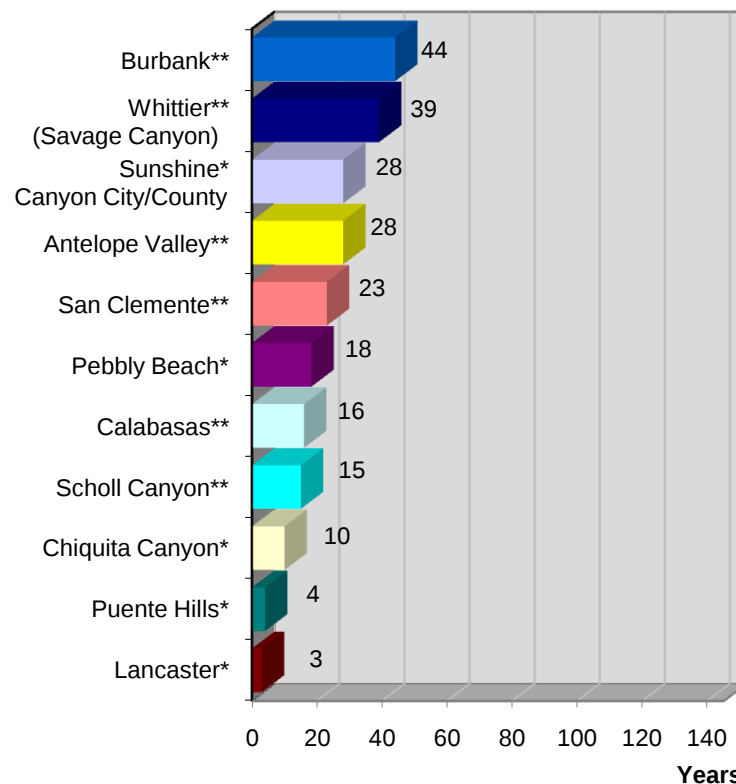
The figure below shows a breakdown of each landfill's remaining capacity in million tons as of December 31, 2009. Refer to **Appendix E-2 Table 1** for detailed data.

Figure 24: Class III Landfill Remaining Capacity



When each landfill's daily average 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 as permitted in 2009 base on land use permit.

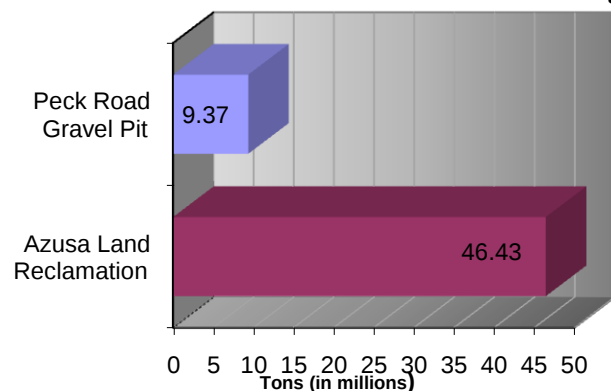
** Landfill Remaining life based on Solid Waste Facility Permit.

Permitted Inert Waste Landfills

There are two Inert Waste Landfills in Los Angeles County that have a Solid Waste Facility Permit. The combined remaining

capacity of these two landfills is estimated at 56 million tons or 49 million cubic yards. See **Figure 26** for the breakdown at each facility. Refer to **Appendix E-2 Table 1** for detailed data. At the average disposal rate of 440 tpd in 2009, this capacity would be exhausted in 339 years. Therefore, the County currently has adequate disposal capacity for inert waste.

Figure 26: Permitted Inert Waste Landfill Remaining Capacity



Inert Debris Engineered Fill Operations

There are other Inert Waste Landfills which do not have a Solid Waste Facility Permit. These landfills are classified as Inert Debris Engineered Fill Operations (IDEFO). The Nu-Way Arrow Reclamation, Inc., Nu-Way Live Oak Reclamation, Inc. and Calmat Reliance Pit #2 are no longer operating under a full SWFP. In 2006, CalRecycle reclassified them to “Inert Debris Engineered Fill Operations.” These sites and other Inert Debris Engineered Fill Operations handled nearly 1.54 million tons or approximately 1.93 million cubic yards of material in the County.

Transfer and Processing Capacity

There are 42 permitted Large Volume Transfer/Processing and Direct Transfer Facilities, those receiving 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-4** 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 that will 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 characterizations;

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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;

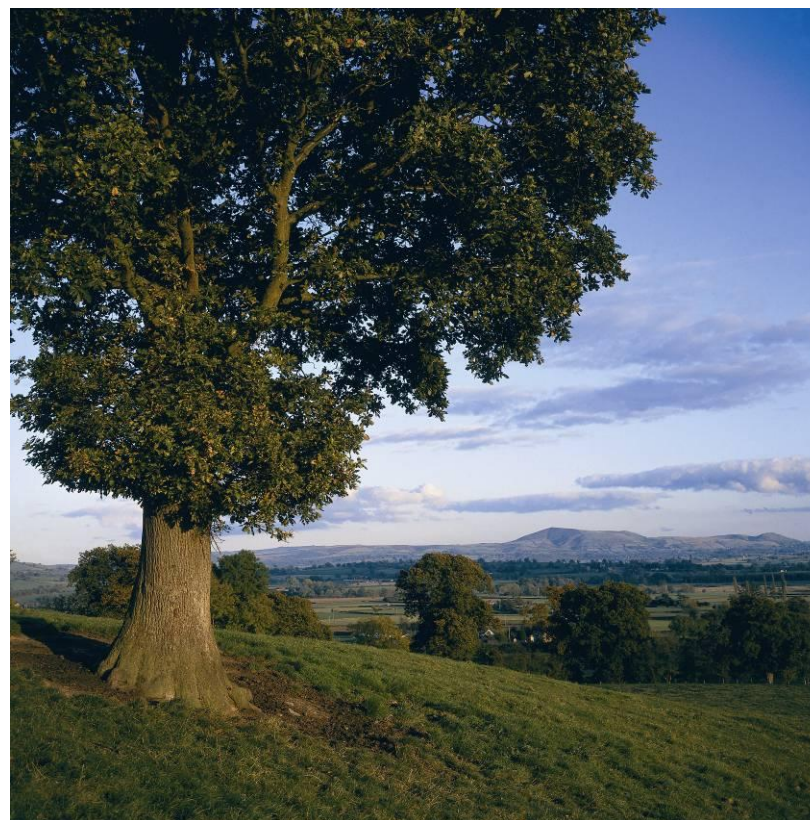
Activities to Encourage Proper Disposal

- ❖ Waste tire processing;
- ❖ Christmas tree recycling;
- ❖ 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.



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 2010 to 2024. The discussion will first evaluate whether the existing disposal infrastructure 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 other 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 Landfills** (page 26), permitted inert waste landfills will not be included in the discussion.

Definitions

Daily Disposal Demand – The amount of solid waste generated less the amount diverted by means of reuse, recycling, or composting 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 solid waste disposal facility is allowed to receive 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.

The distribution by sector data is calculated from each jurisdiction's SRRE based on each jurisdiction's most recently approved base generation year. Based on data provided by CalRecycle, the average Countywide distribution is as follows:

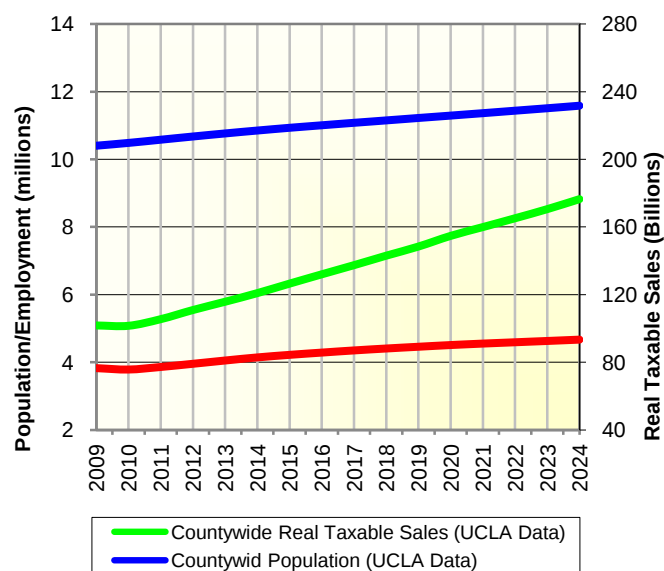
Residential Waste Generation = 27 percent of total waste generation

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

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Population, employment, and 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 July 2010, 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 3**.

Figure 27: 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 2009** (page 25), the two transformation facilities in the County are expected to provide up to 645,600 tpy of Daily Available Capacity. Since this limit is not expected to change, the same capacity is projected during the planning period.

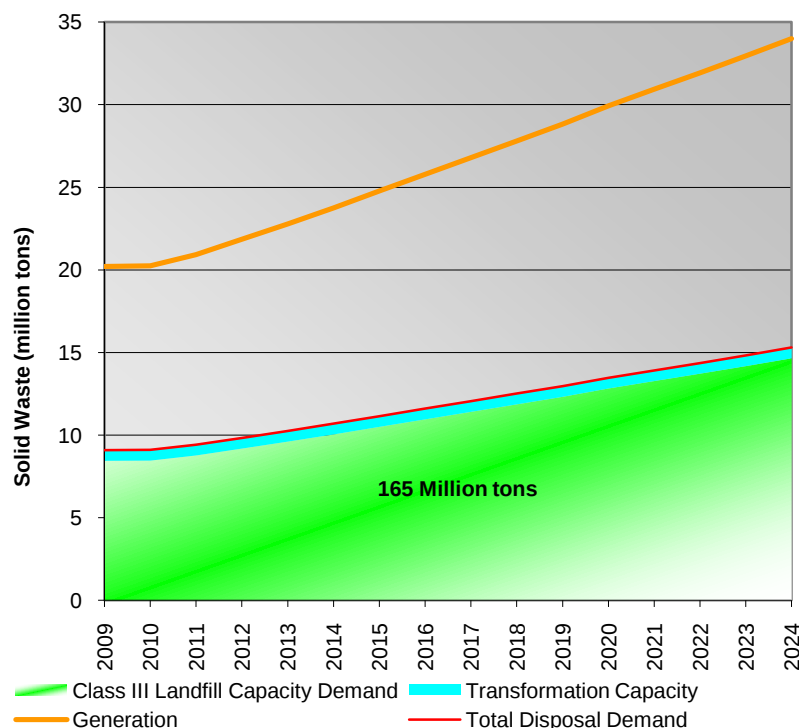
Class III Landfill Capacity Needed

The Daily Disposal Demand that cannot be accommodated by transformation facilities will have to be met by the Class III landfills in the County, assuming no other options are available, such as exporting to out-of-County facilities or development of new alternative technologies.

Conclusion

The result of the evaluation is plotted in the graph below. The detailed data is also provided in **Appendix E-2 Table 4**.

Figure 28: Solid Waste Generation and Disposal Trend



The area in green illustrates the amount of Class III landfill capacity needed. By the end of year 2024, the cumulative need for Class III landfill capacity totals 165 million tons. However, as shown in **Remaining Disposal Capacity at End of 2009** (page 25), the remaining capacity of all existing Class III landfills

amounts to a maximum of 142 million tons, which falls short of the capacity needed. Other constraints that may limit the accessibility of Class III landfill capacity include: watershed boundaries, geographic barriers, weather, and natural disasters. In conclusion, further analysis with more disposal options is necessary to supplement the capacity existing in-County infrastructure provides.

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 and watershed restriction, if any.

Proposed Expansions of In-County Class III Landfills – Additional disposal capacity may be provided by the proposed landfill expansions. Detailed discussion is provided in **Proposed Facility Expansions** (page 16).

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 County, Riverside County, and Ventura County are currently accepting waste from the County. The development of two new out-of-

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County landfills in Imperial County and Riverside County are also considered. Refer to **Out-of-County Disposal Facilities** (page 40) for more detail.

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

Increased Diversion Rate – The County’s continuous diversion efforts may alleviate the Daily Disposal Demand by achieving an increased diversion goal beyond that currently attained.

Given all the various capacity options, the analysis evaluated 7 potential scenarios during the 15-year planning period. The table below summarizes the differences between the scenarios.

For all 7 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 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 by each year’s end. The disposal rate will be based on the average disposal rate in 2009 (see **Disposal Analysis for 2009** on page 18) and increased annually, proportional to the waste generate rate. No new landfills in the County are expected to be permitted. 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.

<u>Comparison of Seven Potential Scenarios</u>		Scenarios	Scenario I	Scenario II	Scenario III	Scenario IV	Scenario V	Scenario VI	Scenario VII
Source of Capacity									
Existing In-County Class III Landfills and Transformation Facilities			●	●	●	●	●	●	●
Proposed Expansions of In-County Class III Landfills				●	●	●	●	●	●
Various Levels of Imports and Exports	No Imports or Exports			●					
	Imports up to 900 tpd; Various Levels of Exports	●		●	●	●	●	●	●
Alternative Technologies						●	●		
Increased Diversion Rate							●		●

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Scenario I (Status Quo)

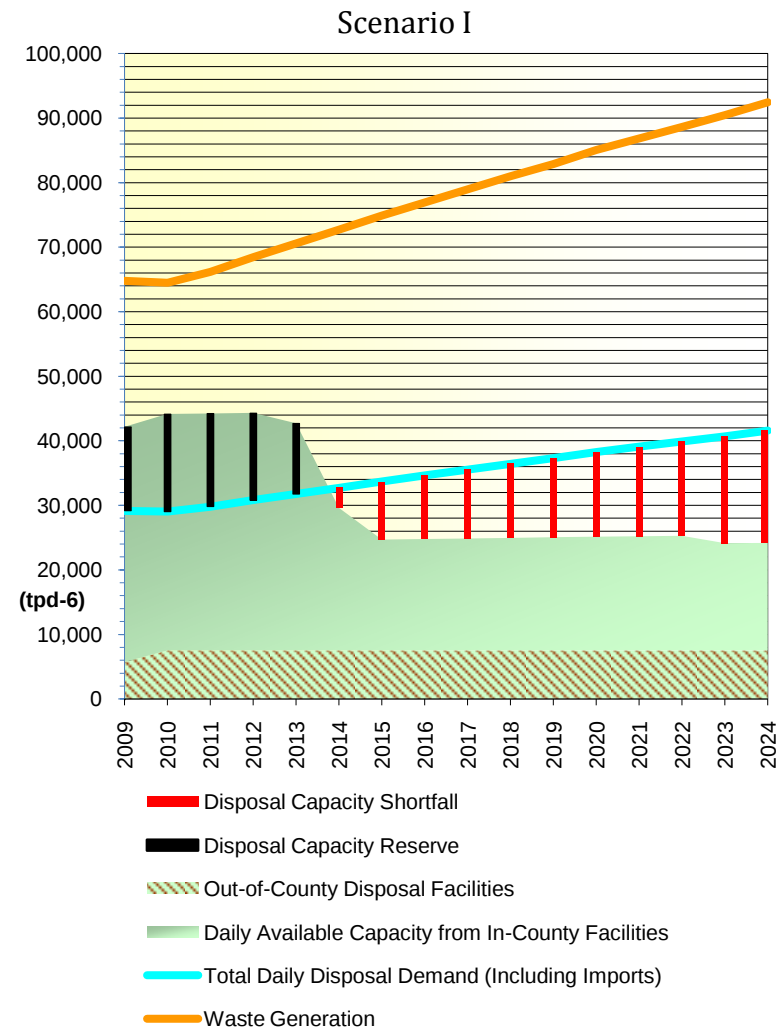
- Existing In-County Class III Landfills and Transformation Facilities
- Imports up to 900 tpd; Exports up to 7,500 tpd

Scenario I considers the use of existing disposal infrastructure and utilizes up to 7,500 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 610 tpd for 2009, waste import quantities are projected to be 900 tpd for every year thereafter.

Exports – The amount of waste exported out-of-County is expected to increase slightly from 5,700 tpd in 2009 to 7,500 tpd in 2010 and remain at this level through the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur beginning 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 18,300 tpd. Since the shortfall occurs prior to 2024, 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.



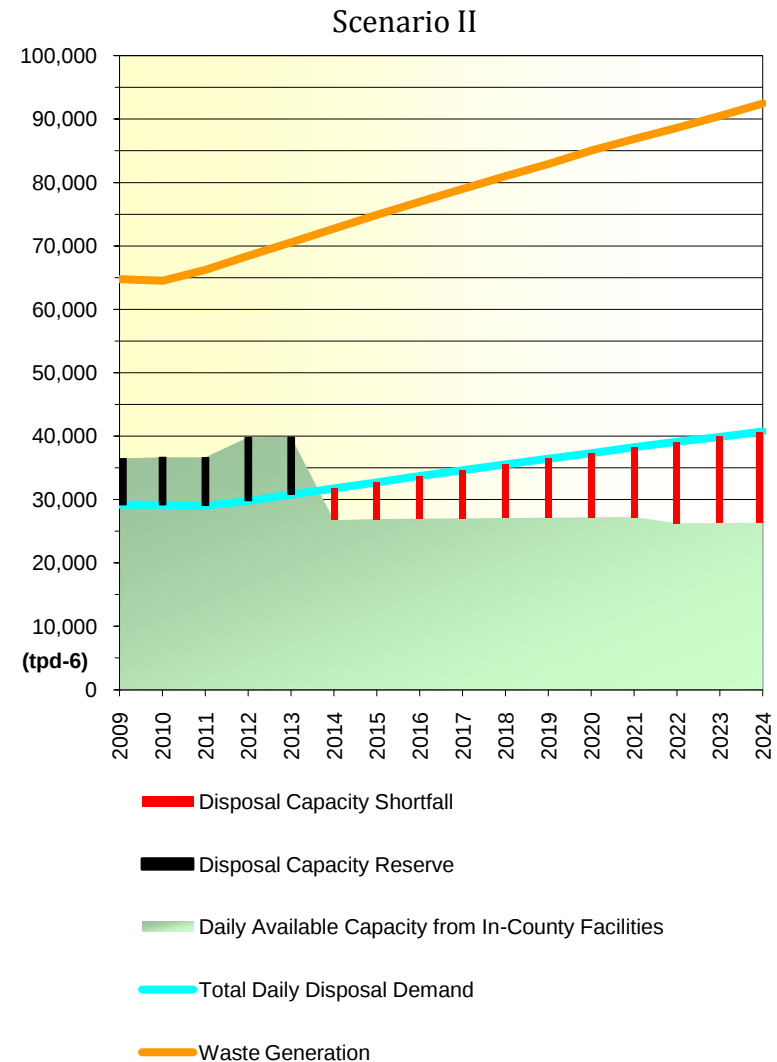
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Scenario II (No Import, No Export)

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- No Imports or Exports

Scenario II assumes that all solid waste disposed would be managed by existing disposal infrastructure and the successful permitting and development of all in-County landfill expansions. The scenario assumes no imported or exported waste and no new alternative technologies.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur beginning in 2014 as shown in the figure. The shortfall would continue through the end of the planning period, when it is estimated to reach 14,400 tpd. Since the shortfall occurs prior to the year 2024, 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.



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Scenario III (Expansions)

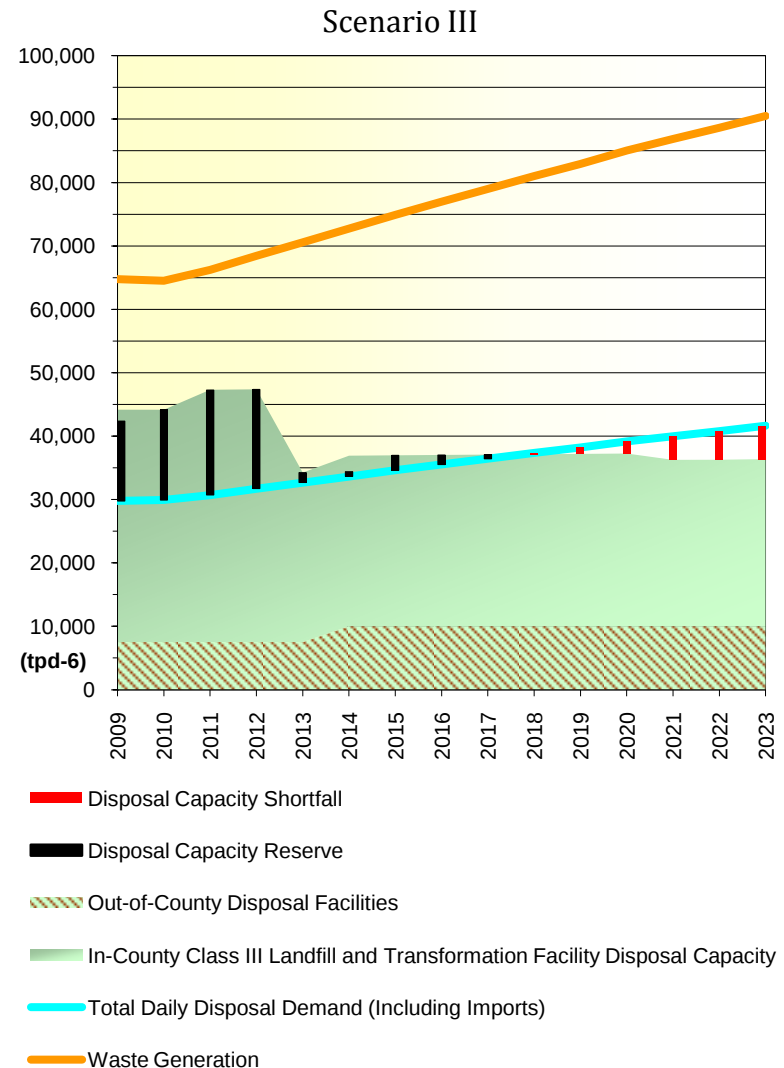
- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Imports up to 900 tpd; Exports up to 10,000 tpd

Scenario III fully utilizes the capacity from existing and proposed expansions of in-County disposal infrastructure. The scenario assumes no alternative technologies. The following assumptions are made with respect to imports and exports:

Imports – Based on the average rate of 610 tpd for 2009, waste import quantities are projected at 900 tpd for every year thereafter.

Exports – The amount of waste exported out-of-County is estimated to increase from 5,700 tpd in 2009 to 7,500 tpd in 2010 and remain at this level through 2014. Waste exports would increase to 10,000 tpd in 2015 and remain at this level through the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur beginning in 2018. The shortfall is estimated to increase to 4,800 tpd by the end of the planning period. Therefore, development of proposed expansions and exporting up to 10,000 tpd would not be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



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Scenario IV (Alternative Technologies)

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Imports up to 900 tpd; Exports up to 10,000 tpd
- Alternative Technologies (Up to 10,000 tpd)

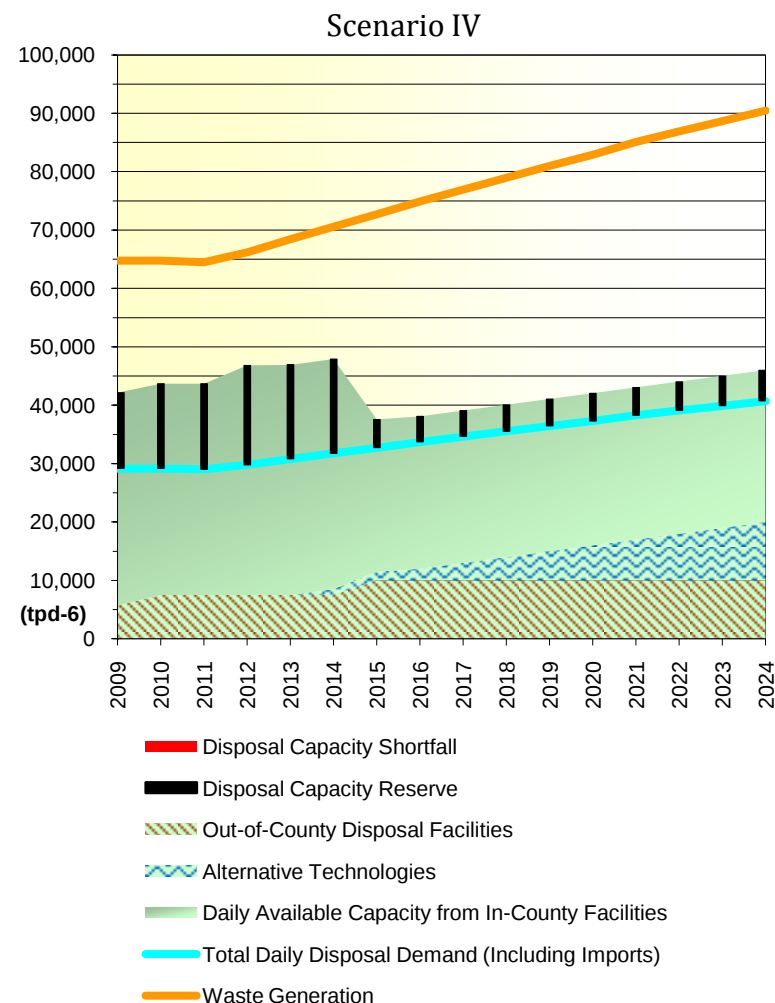
Scenario IV fully utilizes the capacity from existing and proposed expansions of in-County disposal infrastructure. The scenario projects, in accordance with the City of Los Angeles Solid Waste Integrated Resources Plan, that by 2014, alternative technology facilities for residential waste would become operational in the County. The permitted capacity of these facilities is estimated to start at 1,000 tpd in 2014 and increase to 10,000 tpd in 2024. The following assumptions are made with respect to imports and exports:

Imports – Based on the rate of 610 tpd for 2009, waste import quantities are projected at 900 tpd for every year thereafter.

Exports – The amount of waste exported out-of-County is estimated to increase from 5,700 tpd in 2009 to 7,500 tpd in 2010 and remain at this level through 2014. Waste exports would increase to 10,000 tpd in 2015 and remain at this level through 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 alternative technologies, and exporting up to 10,000 tpd would

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



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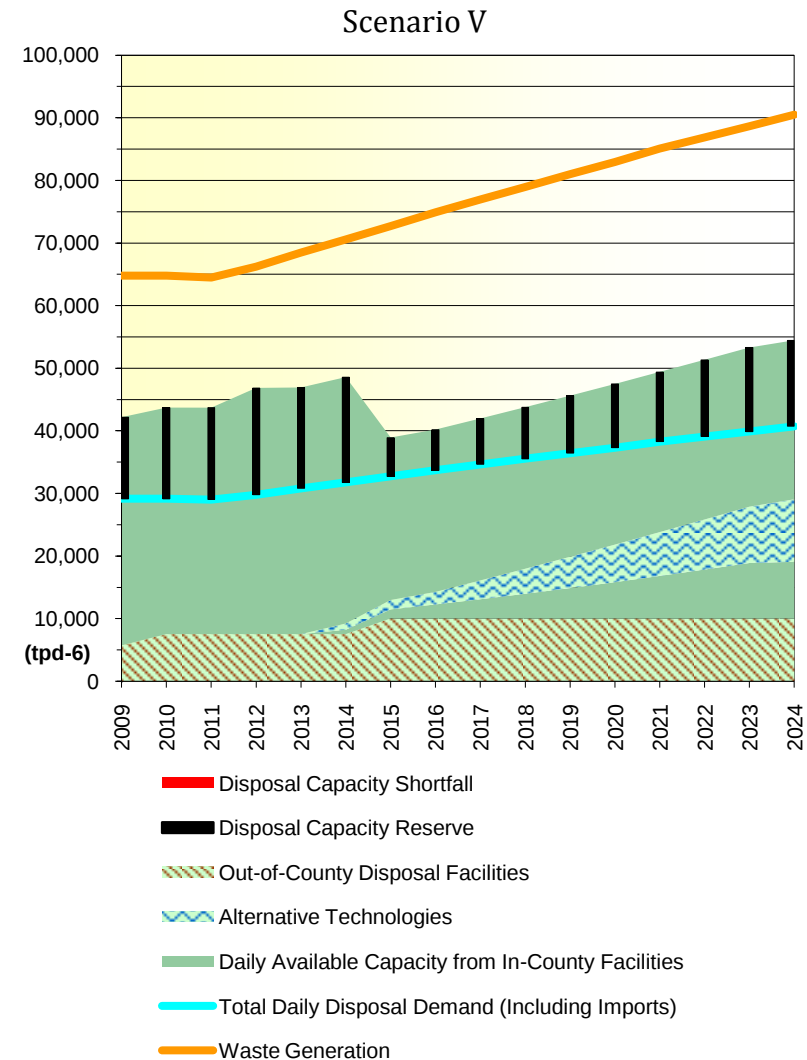
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Scenario V (Alternative Technologies & Increased Diversion)

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Out-of-County Disposal up to 10,000 tpd
- Imports up to 900 tpd; Exports up to 10,000 tpd
- Increased Diversion Rate (Up to 65 percent)

Scenario V is similar to Scenario IV, with the exception of the diversion rate, which is assumed to increase by one percent each year beginning in 2014 and up to 65 percent in 2023 and 2024.

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.



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Scenario VI (Increased Export)

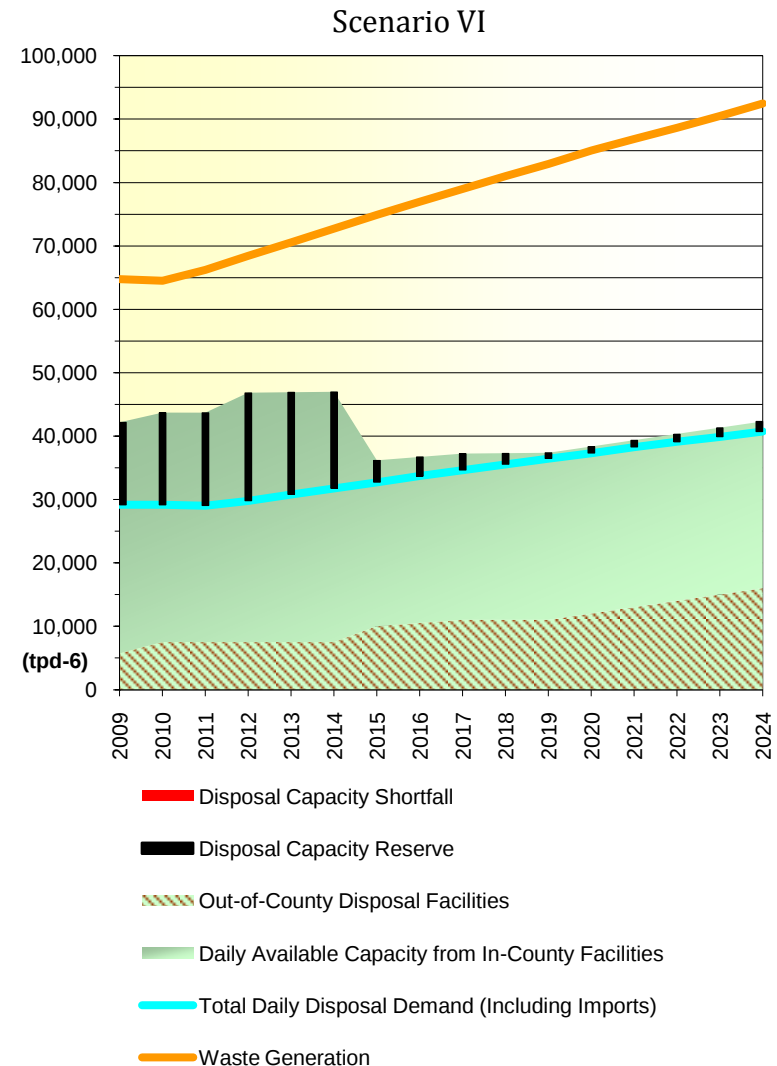
- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Imports up to 900 tpd; Exports up to 16,000 tpd

Scenario VI fully utilizes the capacity from existing and proposed expansions of in-County disposal infrastructure. This scenario assumes no utilization of alternative technology facilities. The following assumptions are made with respect to imports and exports:

Imports – Based on the rate of 610 tpd for 2009, waste import quantities are projected at 900 tpd for every year thereafter.

Exports – The amount of waste exported out-of-County is estimated to increase from 5,700 tpd in 2009 to 7,500 tpd in 2010 and remain at this level through 2014. From 2015 to 2024, waste exports would gradually increase from 10,000 tpd to 16,000 tpd.

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 16,000 tpd would be able to meet the Daily Disposal Demand of the County. Refer to **Appendix E-4** for detailed data.



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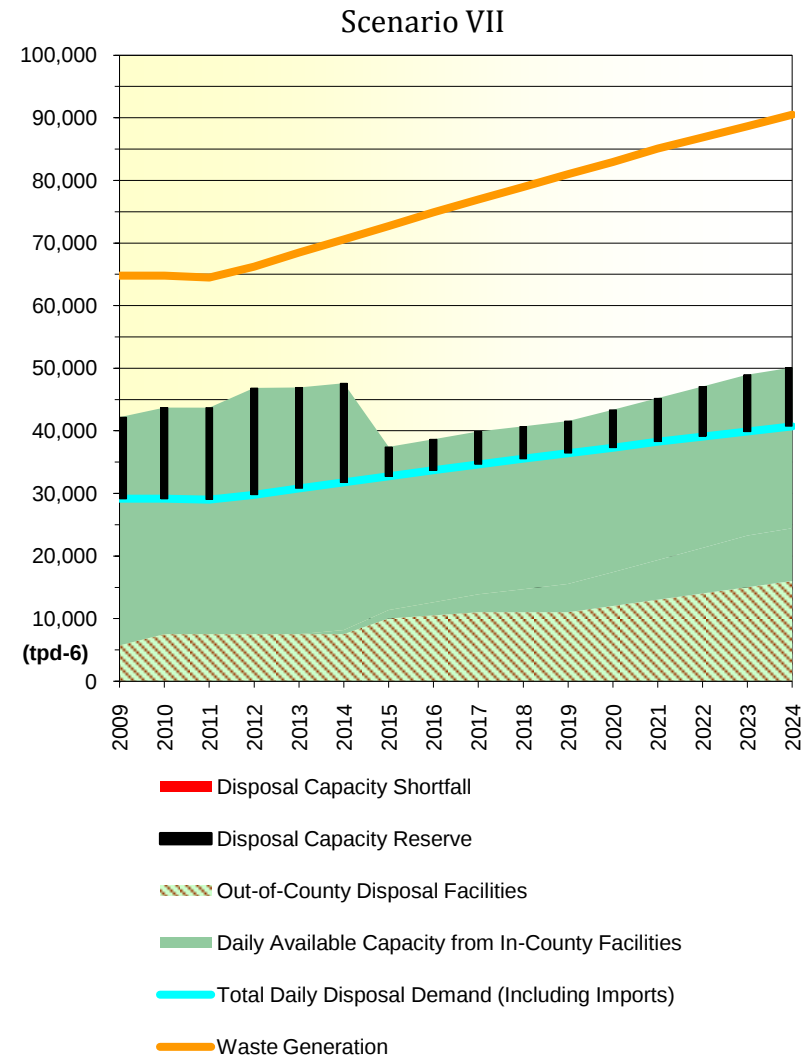
Los Angeles County Countywide Integrated Waste Management Plan

Scenario VII (Increased Export & Diversion)

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Imports up to 900 tpd; Exports up to 16,000 tpd
- Increased Diversion Rate (Up to 65 percent)

Scenario VII is similar to Scenario VI, with the exception of the diversion rate, which is assumed to increase by one percent each year beginning in 2014 and up to 65 percent in 2023 and 2024.

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.



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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 132 million tons and an expected design lifespan of about 35 years as of April 4, 2010. It is permitted to receive 16,054 tpd of waste for disposal. In 2009, the landfill received an average of 6,731 tpd, of which 2,772 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 – Collectively, these landfills received 1,793 tpd from Los Angeles County in 2009. Orange County currently has waste importation agreements with various entities in Los Angeles County. It is assumed that these landfills could 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



3,500 tpd, of which 879 tons came from Los Angeles County in 2009. It is assumed that the landfill would continue to receive the same level of waste from Los Angeles County during the planning period.

- ❖ Mesquite Regional Landfill, Imperial County – The Sanitation Districts completed acquisition of the Landfill in 2002 and commenced development of the Landfill. The Landfill is permitted to accept up to 20,000 tpd with a total capacity of 600 million tons, which is equivalent to a lifespan of nearly 100 years. It is assumed that the Landfill could receive up to 15,000 tpd from Los Angeles County during the planning period with 1,000 tpd reserved for Imperial County.
- ❖ Eagle Mountain Landfill, Riverside County – The Sanitation Districts signed a purchase agreement for acquisition of the Landfill. However, completion of the purchase of the site is dependent on the resolution of federal litigation. 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. Its total capacity is 708 million tons and its lifespan is estimated at more than 100 years. It is assumed that the Landfill could receive up to 15,000 tpd from Los Angeles County during the planning period.

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In total, these out-of-County landfills could potentially handle up to approximately 39,000 tpd of waste from Los Angeles County. Refer to **Appendix E-2 Table 3** for more detailed data.



Conclusion

The scenario analysis discussed earlier assessed the County's ability to meet the Daily Disposal Demand under 7 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. Even if all the landfill expansions were successfully permitted and developed,

Scenario II (No Import, No Export) shows that available disposal capacity would still be inadequate to meet the Daily Disposal Demand. Considering in-County landfill expansions and utilization of up to 10,000 tpd of out-of-County disposal capacity, however, Scenario III (Expansions) shows a shortfall would still be experienced beginning 2018.

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. Scenarios IV and V assessed the effects of developing alternative technologies successfully permitting the Mesquite Regional Landfill. Scenarios V and VII assessed the effect of gradually increasing the Countywide diversion rate to 65 percent. Through the use of these options, Scenarios IV through VII show that the County would be able to accommodate the Daily Disposal Demand through the 15-year planning period.

For the conditions depicted in Scenarios IV, V, and VII to occur, 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.

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❖ **Study, Promote, and Develop Conversion Technologies**

– Development of commercial-scale state-of-the-art conversion technologies, as alternatives to landfilling, appears within reach. However, it will require jurisdictions to invest and actively participate in the research, promotion, and development of alternative technology facilities. Actions that may be taken by jurisdictions include:

- 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 and composting 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** – For jurisdictions in Los Angeles County to have timely access to the capacity at Mesquite Regional Landfill, which is 210 miles away from Downtown Los Angeles, the waste-by-rail system currently being developed by the Sanitation Districts must be fully operational prior to closure of the Puente Hills Landfill.

❖ **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

Antelope Valley Recycling & Disposal Facility Unit I

1. FACILITY INFORMATION

Owner: Antelope Valley Recycling & Disposal Facility, Inc. **Operator:** Waste Management of California, Inc.
Address: 1200 West City Ranch Road, Palmdale 93551 **Operating Days:** Monday-Sunday
SWFP No: 19-AA-0009 **SWFP Issue Date:** 12/26/95
Last 5-year Review Date: 04/01/2005

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

Remaining Permitted Capacity: 66,682 tons 86,600 cubic yards
Estimated Remaining Life: 2 years (based on 866 tpd, 307 days per year)
In-Place Density: [0.76] tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 1,400 tons [1,687 cubic yards]
Yearly Equivalent: [436,800 tons] [526,265 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily: 217 tons [282 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT - Not Applicable. Landfill is in the jurisdiction of City of Palmdale.

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-95-119A2 **Effective:** 10/10/01

7. FOC GRANT DATE - April 20, 1995

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

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

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

Antelope Valley Recycling & Disposal Facility Unit II

1. FACILITY INFORMATION

Owner: Antelope Valley Recycling & Disposal Facility, Inc. **Operator:** Waste Management of California, Inc. **Address:** 1200 West City Ranch Road, Palmdale 93551
Operating Days: Monday-Sunday
SWFP No: 19-AA-5624 **SWFP Issue Date:** 06/12/97
Last 5-year Review Date: 06/12/02 **5-year Review Due Date:** 06/12/07

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

Remaining Permitted Capacity: 7,291,105 tons 9,468,972 cubic yards
Estimated Remaining Life: 27 years (based on 866 tpd, 307 days per year)
In-Place Density: [0.76] tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 1,800 tons [2,169 cubic yards]
Yearly Equivalent: [561,600 tons] [676,627 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily: 866 tons [1,125 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 85-512-(5) **Issued:** 04/9/92
Permit No.: 93-041-(5) **Issued:** 12/1/93

Permit No. 85-512-(5) was amended by the County on December 1, 1993, with Permit No. 93-041-(5) to increase the in-take rate from 600 tpd to 1,800 tpd. Landfill Unit II, which includes most of the remaining capacity, is located in an area that was previously unincorporated but was annexed by the City of Palmdale on August 27, 2003.

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-95-119A2 **Effective:** 10/10/01

7. FOC GRANT DATE - April 20, 1995

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

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

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

Proposed Expansion

Antelope Valley Recycling & Disposal Facility Expansion

1. **FACILITY TYPE** - Class III landfill
2. **OWNER/OPERATOR** - Waste Management of California, Inc.
3. **LOCATION** - 1200 West City Ranch Road, Palmdale 93551
4. **SIZE**

Increase in Proposed Disposal Area:	11 acres	(Total 125 acres)
Increase in Total Acreage of Site:	5 acres	(Total 185 acres)
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	1,800 tons	[2,368 cubic yards]
Yearly Equivalent:	[561,600 tons]	[802,286 cubic yards]
Additional Facility Capacity:	[8,960,000 tons]	12,800,000 cubic yards
In-Place Density:	0.7 tons/cubic yard	
6. **LAND USE/CONDITIONAL USE PERMIT** - Existing permit was issued April 9, 1992 and amended December 1, 1993.
7. **LIFE EXPECTANCY** - Additional 13 years.
8. **EXPANSION OPTIONS** - No additional expansion is proposed
9. **POST-CLOSURE USES** - Open space
10. **REMARKS/STATUS** - The Landfill expansion is proposed in the "Bridge Area". The "Bridge Area" is the wedge area between Landfill Unit I and Landfill Unit II.

In 2005, Waste Management, Inc., filed an application with the City of Palmdale for:

- Consolidation of Landfill Unit I and Landfill Unit II
- Landfill expansion into the "Bridge Area" with additional capacity of approximately 8.96 million tons.

The proposed expansion would result in an additional 8.96 million tons of capacity and add approximately 8 years of life to the landfill at the maximum permitted rate of disposal. Waste Management anticipates the expansion to become operational in 2009. Waste Management is also proposing to increase the daily maximum tonnage from 1,800 tpd to 3,600 tpd. A supplemental environmental document was submitted to the City of Palmdale in 2004 and is still being reviewed.

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

Bradley Landfill

1. FACILITY INFORMATION

Owner: Waste Management , Inc.
Address: 9081 Tujunga Avenue, Sun Valley 91352
SWFP No.: 19-AR-0008 and 19-AR-0004
Last 5-year Review Date: 04/15/03

Operator: Same as owner
Operating Days: Monday-Saturday
SWFP Issue Date: 08/15/96
5-year Review Due Date: 04/15/08

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

Remaining Permitted Capacity:	0 tons	[0 cubic yards]
Estimated Remaining Life:	0 years	
In-Place Density:	0.80 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	10,000 ton	[12,500 cubic yards]
Yearly Equivalent:	[3,120,000 tons]	[3,900,000 cubic yards]

4. 2008 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	0 tons	[0 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit #: ZA 92-0002 (ZV) **Issued:** 04/13/92 **Expiration:** 04/14/07

Amended by Permit No. ZA 94-0792 (ZV), issued March 18, 1996 (increase capacity from 7,000 tpd to 10,000 tpd)

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 94-059	Effective: 06/13/94;
Order No.: 93-062	Effective: 09/27/93, amended by:
Order No.: R4-2006-0007	Effective: 01/19/06

7. FOC GRANT DATE - May 16, 1996

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE

Bradley East - Landfill gas to energy, transfer station

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

11. REMARKS/STATUS - Bradley Landfill and Recycling Center closed on April 14, 2007, as required by its land use permit. It is currently being used as a transfer and processing center.

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

Chiquita Canyon Landfill

1. FACILITY INFORMATION

Owner: Chiquita Canyon, LLC
Address: 29201 Henry Mayo Drive, Valencia 91355
(Los Angeles County Unincorporated Area)
SWFP No.: 19-AA-0052
Last 5-year Review Date: 12/01/06

Operator: Waste Connections Inc.
Operating Days: Monday-Saturday
SWFP Issue Date: 09/30/98
5-year Review Due Date: 12/01/11

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

Remaining Permitted Capacity: 7,323,184 tons [9,856,237 cubic yards]
Estimated Remaining Life: 3 years (based on 3,129 tpd, 306 days per year)
In-Place Density: 0.743 tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 6,000 tons [8,075 cubic yards]
Weekly: 30,000 tons [40377 cubic yards]
Yearly Equivalent: [1,560,000 tons] [2,099,596 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily: 2,204 tons [2,966 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 89-081(5) **Issued:** 05/09/97 **Expiration:** 05/24/19

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 98-086 **Effective:** 11/02/98;
Order No.: 93-062 **Effective:** 09/27/93, amended by:
Order No.: R4-2006-0007 **Effective:** 01/19/06

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 (sewage 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/ Waste Connections Inc.
3. **LOCATION** - 29201 Henry Mayo Drive, Valencia 91355 (Los Angeles County Unincorporated Area)
4. **SIZE** - Vertical

Increase in Proposed Disposal Area:	98 acres	(Total 355 acres)
Increase in Total Acreage of Site:	0 acres	(Total 592 acres)
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	6,000 tons	[8,043 cubic yards]
Weekly:	30,000 tons	
Yearly Equivalent:	[1,560,000 tons]	[2,091,153 cubic yards]
Additional Facility Capacity:	[23,872,000 tons]	32,000,000 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** - 21 years.
8. **EXPANSION OPTIONS** - No additional expansion is proposed
9. **POST-CLOSURE USES** - Open space
10. **REMARKS/STATUS** - In October 2004, Republic Services, Inc., submitted an application for a new CUP, which is currently being reviewed. Republic Services proposed a horizontal and vertical expansion of about 32 million cubic yards and an increase in disposal area of 98 acres. The weekly disposal capacity would remain unchanged at 30,000 tons.

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 New Out-of-County Landfill

Eagle Mountain Landfill

1. **PROJECT PROPONENT** - Mine Reclamation Corporation - see comments below.
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.

Lancaster Landfill and Recycling Center

1. **FACILITY INFORMATION**

Owner: Waste Management of California, Inc.
Address: 600 East Avenue "F", Lancaster 93535
(Los Angeles County Unincorporated Area)
SWFP No.: 19-AA-0050
Last 5-year Review Date: 11/20/06

Operator: Same as owner
Operating Days: Monday-Saturday
SWFP Issue Date: 09/07/00
5-year Review Due Date: 11/20/11

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2009)**

Remaining Permitted Capacity:	13,064,855 tons	15,684,100 cubic yards
Estimated Remaining Life:	31 years (based on 1,313 tpd, 308 days per year)	
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. **2009 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	811 tons	[977 cubic yards]
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5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 93-070-(5)	Issued: 05/13/98	Expiration: 08/1/12
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6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: 6-95-103 and 6-95-103A	Effective: 09/14/95 and 02/06/97, 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 watershed restriction on origin of waste.

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

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** - No Change in size

Increase in Proposed Disposal Area: 0 acres
Increase in Total Acreage of Site: 0 acres
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:	0 tons	0 cubic yards
In-Place Density:	0.78 tons/cubic yard	
6. **LAND USE/CONDITIONAL USE PERMIT** - CUP No. 03-170-(5) for the proposed project is pending consideration by the Los Angeles County Regional Planning Commission.
7. **LIFE EXPECTANCY** - 31 years based on 2009 disposal rate of 811 tpd as of December 31, 2009.
8. **EXPANSION OPTIONS** - No additional expansion is proposed
9. **POST-CLOSURE USES** - Open Space
10. **REMARKS/STATUS** - The facility is proposing to expand its permitted daily tonnage from 1,700 to 3,000 tpd. A Preliminary Draft Supplemental EIR (State Clearing House No. 2004061006), dated March 2006, was prepared for this expansion project.

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

Proposed New Out-of-County Landfill

Mesquite Regional Landfill

1. **PROJECT PROPONENT** - County Sanitation Districts of Los Angeles County
2. **FACILITY TYPE** - Class III landfill
3. **LOCATION** - Adjacent to the Mesquite Gold Mine near Glamis, Imperial County (approximately 35 miles east of the City of Brawley on Highway 78). The site is located 200 miles east of Los Angeles along the Union Pacific Railroad.
4. **SIZE**

Proposed Disposal Area:	2,290 acres
Total Acreage of Site:	4,245 acres
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	20,000 tons
Facility Capacity:	600 million tons
6. **LIFE EXPECTANCY** - 100 years
7. **CURRENT STATUS** - In August 2000, the Sanitation Districts entered into a Purchase and Sale Agreement with Arid Operations, Inc., the original project proponent, for the landfill project including permits. After resolution of Federal litigation regarding a land exchange, the purchase was closed in December 2002, and the landfill project is now fully owned by the Sanitation Districts.

Work on the master plan for the system began in fall 2003 and is expected to be completed in early 2006. Following completion of the master plan, the concurrent final design and construction of the facilities necessary to begin operation would be pursued. Construction started on the landfill in 2007 and as of December 24, 2008, all infrastructure required for the landfill to be operational have been constructed. In addition, the landfill received all required permits, including the land use and solid waste facility permits. The permitted daily disposal capacity is 20,000 tons, out of which, 1,000 tpd is reserved for Imperial County.

The Sanitation Districts submitted an application to amend the existing CUP to allow up to 4,000 tpd of waste to be trucked from Los Angeles, and to allow receipt of up to 600 tpd of treated incinerator ash. The Draft EIR is scheduled to be released for public review and comment in mid 2009.

In October 2008, the Sanitation Districts formed initial agreements with Union Pacific Railroad to establish rail transportation service between the intermodal facility and the landfill. The agreements are expected to be finalized by mid 2009.

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, 2009)

Remaining Permitted Capacity:	[60,6980 tons]	[68,200 cubic yards]
Estimated Remaining Life:	10 years (based on 24 tpd, 261 days per year)	
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. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	10 tons	[11 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 96-162-(4)	Issued: 07/29/98	Expiration: 07/29/28
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2002-0058	Effective: 02/28/02
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7. FOC GRANT DATE - November 21, 1996

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - There is no watershed 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.

3 - Facility operation includes on-site incineration of solid waste.

Peck Road Gravel Pit

1. **FACILITY INFORMATION**

Owner: S.L.S. & N., Inc. (Steve Bubalo)	Operator: Same as Owner
Address: 128 East Live Oak Avenue, Monrovia 91016	Operating Days: Monday-Saturday
SWFP No.: 19-AA-0838	SWFP Issue Date: 11/08/1995
Last 5-year Review Date: 11/13/05	5-year Review Due Date: 11/13/10

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2009)**

Remaining Permitted Capacity:	9,373,505 tons	[6,249,003 cubic yards]
Estimated Remaining Life:	18 years (based on 1,210 tpd, 312 days per year)	
Field Density:	1.5 tons/cubic yard	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	1,210 tons	[807 cubic yards]
Weekly:	[7,260 tons]	[4840 cubic yards]
Monthly:	[31,460 tons]	[20,973 cubic yards]
Yearly Equivalent:	[377,520 tons]	[251,680 cubic yards]

4. **2009 AVERAGE WASTE QUANTITIES DISPOSED**

Daily:	0 tons	[0 cubic yards]
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5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 87-24	Issued: 05/17/88	Expiration: 01/01/2025
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6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: 97-008	Effective: 01/27/97
Order No.: 96-023	Effective: 04/01/06

7. **FOC GRANT DATE** - June 16, 1988

8. **PERMITTED WASTE TYPES** - Inert waste only

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

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

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

Proposed Expansion

Peck Road Gravel Pit Expansion

1. **FACILITY TYPE** - Unclassified, inert waste landfill
2. **OWNER/OPERATOR** - S.L.S. & N., Inc.
3. **LOCATION** - 128 East Live Oak Avenue, Monrovia 91016
Peck Road Gravel Pit is located in the City of Monrovia. The expansion area is within the City of Irwindale.
4. **SIZE**

Increase in Proposed Disposal Area:	36.0 acres	(Total 76 acres)
Increase in Total Acreage of Site:	40.32 acres	(Total 85.4 acres)
5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	1,210 tons	807 cubic yards
Facility Capacity:	7,162,500 tons	[4,775,000 cubic yards]
In-Place Density:	1.5 tons/cubic yard	
6. **LAND USE/CONDITIONAL USE PERMIT** - CUP No. 95-4 was approved on September 14, 2000.
7. **LIFE EXPECTANCY** - 10-15 years
8. **EXPANSION OPTIONS** - No additional expansion is proposed
9. **POST-CLOSURE USES** - Possible access for water recreational area at adjacent property
10. **REMARKS/STATUS** - CUP No. 95-4 for the proposed expansion was approved by the City of Irwindale on September 14, 2000. The EIR was certified on September 14, 2000. The FOC was granted by Task Force on March 21, 2002. The SWFP for the expansion is currently under review.

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: 07/11/03
Last 5-year Review Date: 12/30/09	5-year Review Due Date: 12/30/14

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

Remaining Permitted Capacity:	18,982,000 tons	[34,512,727 cubic yards]
Estimated Remaining Life:	3 years (based on 13,200 tpd, 310 days per year)	
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. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	8,517 tons	[15,485 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 02-027-(4)	Issued: 12/18/02	Expiration: 10/31/13
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2006-0043	Effective: 04/06/06;
Order No.: 93-062	Effective: 09/27/93, amended by:
Order No.: R4-2006-0007	Effective: 01/19/06

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 tpw of beneficial reuse material. The Landfill can only accept treated incinerator ash, and biosolids (sludge) from the operator's wastewater treatment facilities. The Landfill is prohibited by Sanitation Districts' ordinance from accepting wastes from any city having a population of more than 2,500,000 and from any other County having a population of more than 2,000,000.

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

Southeast Resource Recovery Facility (SERRF)

1. FACILITY INFORMATION

Owner: City of Long Beach

Address: 120 Pier South Avenue, Long Beach 90802

SWFP No.: 19-AK-0083

Last 5-year Review Date: 07/11/05

Operator: Monterey Pacific Power Corporation

Operating Days: Monday-Friday (receive)

Monday-Sunday (incinerate)

SWFP Issue Date: 03/03/98

5-year Review Due Date: 07/11/10

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

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. 2009 AVERAGE WASTE QUANTITIES

Daily Received: 1,570 tpd

Daily Disposed: 1,570 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.

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

Sunshine Canyon City Landfill

1. FACILITY INFORMATION

Owner: Browning-Ferris Industries of California, Inc.
Address: 14747 San Fernando Road, Sylmar 91342
SWFP No.: 19-AR-0002-2
Last 5-year Review Date: 05/21/03

Operator: Same as owner
Operating Days: Monday-Saturday
SWFP Issue Date: 05/21/03
5-year Review Due Date: 05/21/08

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

See Fact Sheet on **Sunshine Canyon City/County Landfill**.

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	5,500 tons	[7,051 cubic yards]
Weekly:	30,000 tons	[38,462 cubic yards]
Yearly Equivalent:	[1,560,000 tons]	[2,000,000 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	2,178 tons	[2,792 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-0184(ZC/GPA)(MPR) **Issued:** 2/25/99 **Expiration:** completion of project

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2003-0155 **Effective:** 12/04/03

7. FOC GRANT DATE - April 7, 2003

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept incinerator ash or biosolids (sewage sludge). On December 8, 1999, the Los Angeles City Council gave approval for the expansion of the Landfill into City territory. As a condition of approval, the City of Los Angeles prohibits the Landfill from accepting any solid waste generated outside the County.

11. REMARKS/STATUS - The City portion of Sunshine Canyon Landfill commenced disposal operations on July 28, 2005. 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.

Sunshine Canyon City/County Landfill

1. FACILITY INFORMATION

Owner: Browning-Ferris Industries of California, 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, 2009)

Remaining Permitted Capacity:	[80,627,000 tons]	107,502,667 cubic yards
Estimated Remaining Life:	34 years (based on 12,100 tpd, 312 days per year)	
In-Place Density:	0.75 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	12,100 tons	[16,133 cubic yards]
Weekly:	72,600 tons	[96,800 cubic yards]
Yearly Equivalent:	[3,775,200 tons]	[5,033,600 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

See Fact Sheets on **Sunshine Canyon City Landfill** and **Sunshine Canyon County Landfill**.

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-0184	Issued: 01/22/00	Expiration: completion of project
Permit No.: 00-194-(5)	Issued: 05/24/07	Expiration: 02/05/37

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2007-0064	Effective: 12/06/07;
Order No.: R4-2008-0088	Effective: 10/02/08
Order No.: 93-062	Effective: 09/27/93, amended by:
Order No.: R4-2006-0007	Effective: 01/19/06;

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.

Sunshine Canyon County Landfill

1. FACILITY INFORMATION

Owner: Browning-Ferris Industries of California, Inc.
Address: 14747 San Fernando Road, Sylmar 91342
(Los Angeles County Unincorporated Area)
SWFP No.: 19-AA-0853
Last 5-year Review Date: 02/21/07

Operator: Same as owner
Operating Days: Monday-Saturday
SWFP Issue Date: 02/21/07
5-year Review Due Date: 02/21/12

2. REMAINING PERMITTED CAPACITY (as of December 31, 2009)

See Fact Sheet on **Sunshine Canyon City/County Landfill**.

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	6,600 tons	[10,000 cubic yards]
Weekly:	36,000 tons	[54,545 cubic yards]
Yearly Equivalent:	[1,872,000 tons]	[2,836,363 cubic yards]

4. 2009 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	3,771 tons	[5714 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 86-312-5	Issued: 10/21/93	Expiration: completion of project
Permit No.: 00-194-5	Issued: 02/06/07	Expiration: 02/05/37

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 91-091	Effective: 07/22/91;
Order No.: R4-2007-0064	Effective: 12/06/07;
Order No.: R4-2007-0033	Effective: 06/07/07;
Order No.: R4-2007-0023	Effective: 04/05/07;
Order No.: 93-062	Effective: 09/27/93, amended by:
Order No.: R4-2006-0007	Effective: 01/19/06

7. FOC GRANT DATE - August 15, 1991

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept incinerator ash or biosolids (sewage sludge). On February 6, 2007, the Los Angeles Board of Supervisors gave approval for the expansion of the Landfill. As a condition of approval, the Landfill 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.

Appendix E-2 Tables

2009 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	Operation days/week	SWFP Maximum Daily Capacity	LUP Maximum Daily Capacity	2009 Annual Disposal (Million Tons) (See Note 1)			2009 Average Daily Disposal tpd-6 (See Note 1)			2010 Average Daily Disposal tpd-6 (See Note 1)			Estimated Remaining Permitted Capacity (as of December 31, 2009) (See Note 2)		Comments
		City or Unincorporated Area				In-County	Out-of-County	Total	In-County	Out-of-County	Total	In-County	Out-of-County	Total	Million Tons	Million (a) Cubic Yards	
		Tons		Tons													
Antelope Valley	19-AA-0009	Palmdale	7	1,400	---	0.266	0.001	0.267	852	3	855	613	30	643	7.358	9.556	The operator has requested combining Antelope Valley Landfill Units 1 and 2 resulting in an additional capacity of about 9 million tons. The City of Palmdale has scheduled a public hearing to consider the land use approval for April 14, 2011. See page 47 for additional information.
	19-AA-5624	Palmdale		1,800 (b)	1,800												
Burbank	19-AA-0040	Burbank	5	240	---	0.038	0.000	0.038	121	0	121	121	0	121	3.119	5.198	Limited to use by City of Burbank's crews only.
Calabasas	19-AA-0056	Unincorporated Area	6	3,500	---	0.260	0.014	0.274	832	46	878	807	53	860	7.525	16.834	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	0.674	0.013	0.688	2,161	43	2,204	2,513	36	2,549	7.323	9.856	Proposed expansion pending. LUP limits waste disposal to 30,000 tons per week. LUP expires 11/24/2019. New CUP pending.
Lancaster	19-AA-0050	Unincorporated Area	6	1,700	1,700	0.239	0.014	0.253	767	44	811	750	87	837	13.070	15.747	LUP expires 8/1/2012. The estimated remaining design capacity is approximately 13 million tons.
Pebbly Beach	19-AA-0061	Unincorporated Area	7	49	49	0.003	0.000	0.003	10	0	10	10	0	10	0.061	0.068	LUP expires 07/29/2028.
Puente Hills	19-AA-0053	Unincorporated Area	6	13,200	13,200	2.613	0.044	2.657	8,375	142	8,517	7,410	141	7,552	14.351	26.092	LUP limits waste disposal to 72,000 tons per week. Does not accept waste generated from Orange County and portions of the City of Los Angeles outside the wasteshed boundary. Closure date is Oct 31, 2013.
San Clemente	19-AA-0063	Unincorporated Area	2	10	---	0.000	0.000	0.000	1	0	1	1	0	1	0.039	0.313	Landfill owned and operated by the U.S. Navy.
Scholl Canyon	19-AA-0012	Glendale	6	3,400	---	0.257	0.000	0.257	825	0	825	815	0	815	5.060	10.835	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	2.353	0.000	2.353	7,541	2	7,543	6,015	1	6,016	80.627	107.502	The combined Sunshie 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	240	0	241	235	0	235	3.346	6.915	
TOTAL				43,749		6.779	0.087	6.866	21,727	279	22,006	19,291	349	19,640	141.878	208.917	

Waste-to-Energy (Transformation) Facilities																	
Commerce Refuse To-Energy Facility	19-AA-0506	Commerce	7	1,000	---	0.096	0.004	0.100	307	14	321	316	186	502	466.640 (c)	777.733	Assumed to remain operational during the 15-year planning period.
Southeast Resource Recovery Facility	19-AK-0083	Long Beach	7	2,240	---	0.441	0.049	0.490	1,414	156	1,570	1,426	791	2,217	1,602.450 (d)	2,670.750	Assumed to remain operational during the 15-year planning period.
TOTAL				3,240		0.537	0.053	0.590	1,721	170	1,891	1,743	977	2,719	2,069.090 (e)	3,448.483	
Permitted Inert Landfills																	
Azusa Land Reclamation	19-AA-0013	Azusa	6	6,500	---	0.087	0.050	0.137	280	160	440	265	103	368	46.425	42.940	By Court Order, on 10/2/96, 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 tpd consists of 6,000 tpd of refuse and 500 tpd of inert waste. Facility
Peck Road Gravel Pit	19-AA-0838	Monrovia	6	1,210	---	0.000	0.000	0.000	0	0	0	0	0	0	9.374	6.249	
TOTAL				7,710		0.087	0.050	0.137	280	160	440	265	103	368	55.799	49.189	

Out-of-County Disposal		Waste Exported in 2009 Los Angeles County to Out-of-County Class III Disposal Facilities = 1,779,290 tons 5,703 tpd-6															

NOTES:
1. 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 through the State Disposal Reporting System.
2. Estimated Remaining Permitted Capacity based on landfill owner/operator responses in a written survey conducted by Los Angeles County Department of Public Works in March 2009 as well as a review of site specific permit criteria established by local land use agencies, Local Enforcement Agencies, California Regional Water Quality Control Board, and the South Coast Air Quality Management District.

Abbreviation:
LUP Land Use Permit or Conditional Use Permit
SWFP Solid Waste Facility Permit

FOOTNOTES:
(a) 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.
(b) Antelope Valley Landfill's daily capacity of 1,800 tons is based on the Solid Waste Facility Permit issued on 12/26/95 for the unincorporated County landfill area (expansion capacity included).
(c) Based on the Solid Waste Facility Permit limit of 2,800 tons per week, expressed as a daily average, six days per week.
(d) Based on EPA limit of 500,000 tons per year, expressed as a daily average, six days per week.
(e) Tonnage expressed as a daily average, six days per week.

2009 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		2009 Average Daily Disposal ¹		2009 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	292	365	0.09	0.11
Chandler's Palos Verdes Sand & Gravel	19-AE-0004	Rolling Hills Estates	6	1,282	1,603	102	127	0.03	0.04
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	1,255	1,569	0.39	0.49
Montebello Land & Water Co.	19-AA-0019	Montebello	6	1	1	1	1	0.00	0.00
Nu-Way Arrow	19-AA-1074	Irwindale	6	6,000	7,500	1,464	1,829	0.46	0.57
Nu-Way Live Oak	19-AA-0849	Irwindale	6	6,000	7,500	0	0	0.00	0.00
Reliance Pit #2 (CalMat) Vulcan	19-AA-0854	Irwindale	6	4,800	6,000	287	358	0.09	0.11
Strathern Landfill	19-AR-1016	Los Angeles	6	2,160	2,700	46	58	0.01	0.02
Sun Valley (CalMat/Vulcan)	19-AR-1160	Los Angeles	6	1,458	1,823	1,503	1,879	0.47	0.59
United Rock Products	N/A	Irwindale	6	N/A	N/A	0	0	0.00	0.00
TOTAL				26,981	33,726	4,950	6,187	1.54	1.93

NOTES:

1. Disposal quantities for 2009 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, February 2011

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**APPENDIX E-2 TABLE 3
OUT-OF-COUNTY LANDFILLS CURRENTLY AVAILABLE FOR USE BY JURISDICTIONS IN LOS ANGELES COUNTY
As of January 1, 2009**

Facility Location Owner/Operator	Rail Access	Distance from Los Angeles County ¹	2009 Average Daily Disposal Rate (tpd-6)	Anticipated Maximum Disposal from Los Angeles County (tpd)	2009 Average Disposal from Los Angeles County ² (tpd-6)	Operation days/week	Permitted Daily Capacity (tpd-6)	Remaining Permitted Disposal Capacity (million tons) ⁴	Remaining Design Life (years)	Tipping Fees ⁵	Import Surcharge ⁶	Comments
El Sobrante Landfill Riverside County Waste Mgmt., Inc.	NO	60 miles	6,731	4000	2,772	6	16,054	132	35	\$34.37 per ton	\$5 per ton	Permitted to import out-of-County waste up to 60% of permitted daily capacity and 70,000 tons/week. Remaining capacity and design life are based on the SWFP which was approved by the Waste Board on
Frank R. Bowerman Sanitary Landfill Orange County O.C. Integrated Waste Mgmt. Dept	NO	45 miles	4,611	1,500	270	6	11,500	37	44	\$46 per ton	0	There is no importation fee for waste delivered under an imported waste contract. Imported waste tonnage is received under 10-year contracts with franchise waste haulers and continues through 2013 at the Frank R. Bowerman Landfill and 2015 at the Olinda Alpha and Prima Deshecha Landfills.
Olinda Alpha Sanitary Landfill Orange County O.C. Integrated Waste Mgmt. Dept	NO	30 miles	5,471	1,500	1,459	6	8,000	14	12	\$46 per ton	0	
Prima Deshecha Sanitary Landfill² Orange County O.C. Integrated Waste Mgmt. Dept	NO	60 miles	1,528	1,500	64	6	4,000	73	58	\$46 per ton	0	
Simi Valley Landfill & Recycling Center Ventura County Waste Mgmt., Inc.	NO	50 miles	2,521	850	879	7	3,500	16	16-24	\$48.50 per ton	0	No limits on maximum tonnage that can be imported.
Mesquite Regional Landfill Imperial County County Sanitation Districts of Los Angeles County	YES	210 miles	—	15,000	—	—	20,000	600	100	—	\$1-\$5 per ton	In operation in 2009. Permitted to reserve up to 1,000 tpd of available capacity for Imperial County wastestream. Up to 4,000 tpd may be transported by truck haul.
Eagle Mountain Landfill Riverside County Kaise Eagle Mountain, Inc. / Mine Reclamation Corporation	YES	170 miles	—	15,000	—	—	20,000	708	100	—	—	Currently not operational and has been in litigation since 1999. Subject to purchase agreement by the County Sanitation Districts of Los Angeles County.
TOTAL				39,350	5,444 ³							

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) account for another 426 tons per day. Total Waste exported is approximately 5,870 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, 2010.
- Fees charged for disposal of out-of-County waste based on the base disposal fee charged by the operator.

Source: Los Angeles County Department of Public Works, February 2011

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APPENDIX E-2 TABLE 4
POPULATION, EMPLOYMENT, AND TAXABLE SALES IN LOS ANGELES COUNTY

YEAR	POPULATION		EMPLOYMENT		TAXABLE SALES	
	(persons)	(millions of persons)	(persons)	(millions of persons)	(dollars)	(billions of dollars)
2009	10,398,000	10.4	3,829,700	3.8	101,800,000,000	101.8
2010	10,481,000	10.5	3,788,500	3.8	101,600,000,000	101.6
2011	10,576,000	10.6	3,863,700	3.9	105,500,000,000	105.5
2012	10,671,000	10.7	3,958,100	4.0	110,900,000,000	110.9
2013	10,762,000	10.8	4,055,100	4.1	115,800,000,000	115.8
2014	10,848,000	10.8	4,147,100	4.1	120,900,000,000	120.9
2015	10,929,000	10.9	4,222,700	4.2	126,500,000,000	126.5
2016	11,004,000	11.0	4,290,100	4.3	132,000,000,000	132.0
2017	11,077,000	11.1	4,354,100	4.4	137,400,000,000	137.4
2018	11,148,000	11.1	4,411,000	4.4	143,000,000,000	143.0
2019	11,220,000	11.2	4,463,100	4.5	148,400,000,000	148.4
2020	11,291,000	11.3	4,513,100	4.5	154,700,000,000	154.7
2021	11,363,000	11.4	4,556,700	4.6	159,900,000,000	159.9
2022	11,436,000	11.4	4,595,700	4.6	165,100,000,000	165.1
2023	11,509,000	11.5	4,634,400	4.6	170,500,000,000	170.5
2024	11,584,000	11.6	4,673,700	4.7	176,400,000,000	176.4

NOTES:

1. Projection data is from UCLA Anderson Forecast for Los Angeles County dated July 2010.

Source: Los Angeles County Department of Public Works, February 2011

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**APPENDIX E-2 TABLE 5
LOS ANGELES COUNTY SOLID WASTE DISPOSAL CAPACITY
FOR PLANNING PERIOD 2009-2024**

A	B	C	D	E	F	G	H	I	J
YEAR	TOTAL GENERATION TONS	PERCENT DIVERSION (ASSUMED)	TOTAL DIVERSION TONS	PROJECTED TRANSFORMATION & CLASS III LANDFILL DISPOSAL (TONS)	AVAILABLE TRANSFORMATION CAPACITY TONS	CLASS III LANDFILL DISPOSAL NEED			
						ANNUAL		CUMULATIVE (YEAR'S END)	
						TONS	CUBIC YARDS	TONS	CUBIC YARDS
2009	20,211,219	55%	11,116,170	9,095,048	645,600	8,449,448	14,082,414	8,449,448	14,082,414
2010	20,122,133	55%	11,067,173	9,054,960	645,600	8,409,360	14,015,600	16,858,808	28,098,014
2011	20,653,111	55%	11,359,211	9,293,900	645,600	8,648,300	14,413,833	25,507,108	42,511,847
2012	21,356,475	55%	11,746,061	9,610,414	645,600	8,964,814	14,941,356	34,471,922	57,453,204
2013	22,021,833	55%	12,112,008	9,909,825	645,600	9,264,225	15,440,374	43,736,147	72,893,578
2014	22,691,619	55%	12,480,391	10,211,229	645,600	9,565,629	15,942,714	53,301,776	88,836,293
2015	23,365,575	55%	12,851,066	10,514,509	645,600	9,868,909	16,448,181	63,170,684	105,284,474
2016	24,010,677	55%	13,205,872	10,804,805	645,600	10,159,205	16,932,008	73,329,889	122,216,482
2017	24,638,925	55%	13,551,409	11,087,516	645,600	10,441,916	17,403,194	83,771,805	139,619,675
2018	25,267,610	55%	13,897,185	11,370,424	645,600	10,724,824	17,874,707	94,496,629	157,494,382
2019	25,868,468	55%	14,227,658	11,640,811	645,600	10,995,211	18,325,351	105,491,840	175,819,734
2020	26,541,450	55%	14,597,797	11,943,652	645,600	11,298,052	18,830,087	116,789,893	194,649,821
2021	27,105,784	55%	14,908,181	12,197,603	645,600	11,552,003	19,253,338	128,341,895	213,903,159
2022	27,659,899	55%	15,212,944	12,446,954	645,600	11,801,354	19,668,924	140,143,250	233,572,083
2023	28,230,479	55%	15,526,763	12,703,715	645,600	12,058,115	20,096,859	152,201,365	253,668,942
2024	28,845,831	55%	15,865,207	12,980,624	645,600	12,335,024	20,558,373	164,536,389	274,227,315

NOTES:

1. Waste generation (Column B) is calculated using the Waste Board's Adjustment Methodology, utilizing employment, population, and taxable sales projections from UCLA.
2. Waste generation for 2008 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 2009 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 2009 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, February 2011

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

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

Year	Generation (Annual Tons)	Population	Per Capita Generation (Lbs/Resident/Day)
2003	23,798,794.40	9,993,000	13.05
2004	23,933,734.82	10,105,000	12.98
2005	24,623,752.80	10,184,000	13.25
2006	23,614,932.98	10,233,000	12.65
Four-year Average of Generation:			12.98
Diversion requirement level:			50%
Per Capita Disposal Equivalent:			6.49
Per Capita Transformation credit limit (=10% x 13.0):			1.30
Year	Disposal (Annual Tons)	Population	Per Capita Disposal without Transformation Credit (Lbs/Resident/Day)
2009	9,095,048.49	10,398,000	4.79
Transformation (Annual Tons)	Per Capita Transformation (Lbs/Resident/Day)	Transformation Credit (Lbs/Resident/Day)	Per Capita Disposal with Transformation Credit (Lbs/Resident/Day)
537,011.77	0.28	0.28	4.51
Is the per capita disposal less than the per capita disposal equivalent?			Yes

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

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

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	Daily Waste Generation Rate	Diversion Rate ² Status Quo	Total Daily Disposal Demand Status Quo	Los Angeles County Population ³	SB 1016 Per Capita Disposal Equivalent ^{4,5}	SB 1016 Annual Disposal Limit ⁶	SB 1016 Daily Disposal Limit ⁶	Diversion Rate Equivalent Status Quo
	A	B = A/312	C	D = B(1-C)	E	F	(yearly) G = (E*F*365days)/(2000lb/ton)	(daily) H = G/312 days	I = (1 - H/B)*100
	(tons)	(tpd-6)		(tpd-6)	(Residents)	(lb/res/day)	(tons)	(tpd-6)	
2009	20,211,219	64,780	55%	29,151	10,398,000	6.49	12,315,651	39,473	39%
2010	20,122,133	64,494	55%	29,022	10,481,000	6.49	12,413,958	39,788	38%
2011	20,653,111	66,196	55%	29,788	10,576,000	6.49	12,526,479	40,149	39%
2012	21,356,475	68,450	55%	30,803	10,671,000	6.49	12,638,999	40,510	41%
2013	22,021,833	70,583	55%	31,762	10,762,000	6.49	12,746,782	40,855	42%
2014	22,691,619	72,730	55%	32,728	10,848,000	6.49	12,848,642	41,182	43%
2015	23,365,575	74,890	55%	33,700	10,929,000	6.49	12,944,581	41,489	45%
2016	24,010,677	76,957	55%	34,631	11,004,000	6.49	13,033,413	41,774	46%
2017	24,638,925	78,971	55%	35,537	11,077,000	6.49	13,119,876	42,051	47%
2018	25,267,610	80,986	55%	36,444	11,148,000	6.49	13,203,970	42,320	48%
2019	25,868,468	82,912	55%	37,310	11,220,000	6.49	13,289,249	42,594	49%
2020	26,541,450	85,069	55%	38,281	11,291,000	6.49	13,373,343	42,863	50%
2021	27,105,784	86,878	55%	39,095	11,363,000	6.49	13,458,621	43,137	50%
2022	27,659,899	88,654	55%	39,894	11,436,000	6.49	13,545,084	43,414	51%
2023	28,230,479	90,482	55%	40,717	11,509,000	6.49	13,631,547	43,691	52%
2024	28,845,831	92,455	55%	41,605	11,584,000	6.49	13,720,379	43,976	52%

Footnotes:

- 1. Waste Generation is estimated using the Waste Board's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA longterm forecast, July 2010.
 - 2. Diversion Rate remains at 55% through 2024.
 - 3. Los Angeles Countywide Population Projection (UCLA, Long Term Forecast of Los Angeles County, July 2010)
 - 4. SB 1016 Per Capita Disposal Equivalent is a numerical indicator of jurisdictional disposal divided by jurisdiction population (residents) to obtain disposal by individual.
 - 5. SB 1016 Per Capita Disposal Equivalent is the Per Capita Disposal Rate average between 2003-2006.
 - 6. SB 1016 Disposal Limit reflects the yearly and daily Per Capita Disposal Rate.
- Source: Los Angeles County Department of Public Works, February 2011

Appendix E-4 Scenario Tables

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APPENDIX E-4
SCENARIO I - STATUS QUO

• Existing In-County Class III Landfills and Transformation Facilities

• Imports up to 900 tpd; Exports up to 7,500 tpd

								1	2	3	4	5	6	7	8	9	10	11	Total		
								IN-COUNTY CLASS III LANDFILLS													
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Exports to Out-of County Disposal Facilities	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	Antelope Valley	Burbank	R Calabasas	Chiquita	Lancaster	Pebbley Beach	L Puente Hills	R San Clemente	R Scholl	W Sunshine City/County Combined	R Whittier	Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)	
								Maximum Permitted Daily Capacity (tpd-6)													
								Expected Average Daily Tonnage (tpd-6)													
	Remaining Capacity at Year's End (Million Tons)												H	I=G-H							
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F														
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	
2009	64,780	55%	29,151	609	5,703	2,069	21,988	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,729.5	(12,742)	
								852	121	832	2,161	767	10	8,375	1	825	7,541	240			
								7.4	3.1	7.5	7.3	13.1	0.1	14.4	0.0	5.1	80.6	3.3			
2010	64,494	55%	29,022	900	7,500	2,069	20,353	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,578.7	(14,225)	
								789	112	770	2,001	710	9	7,752	1.00	764	7,222	223			
								7.1	3.1	7.3	6.7	12.8	0.06	11.7	0.04	4.8	78.4	3.3			
2011	66,196	55%	29,788	900	7,500	2,069	21,119	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,649.4	(13,530)	
								819	116	799	2,076	737	10	8,044	1.04	792	7,494	231			
								6.9	3.0	7.0	6.1	12.6	0.05	7.6	0.04	4.6	76.0	3.2			
2012	68,450	55%	30,803	900	7,500	2,069	22,134	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,743.0	(12,609)	
								858	122	837	2,176	452	10	8,000	1.09	830	8,604	242			
								6.6	3.0	6.8	5.4	C	0.05	3.4	0.04	4.3	73.4	3.1			
2013	70,583	55%	31,762	900	7,500	2,069	23,093	1,800	240	3,500	5,000		49	13,200	10	3,400	11,000	350	33,131.6	(10,038)	
								895	127	874	3,500		11	8,000	1.13	866	8,566	253			
								6.3	3.0	6.5	4.28		0.05	C	0.04	4.0	70.7	3.1			
2014	72,730	55%	32,728	900	7,500	2,069	24,059	1,800	240	3,500	5,000		49		10	3,400	11,000	350	20,020.7	4,038	
								1,500	132	910	3,500		11		1.18	903	8,500	263			
								5.8	2.9	6.2	C		0.04		0.04	3.8	68.0	3.0			
2015	74,890	55%	33,700	900	7,500	2,069	25,031	1,800	240	3,500			49		10	3,400	11,000	350	15,110.5	9,921	
								1,500	138	947			12		1.23	939	8,500	274			
								5.4	2.9	5.9			0.04		0.04	3.5	65.4	2.9			
2016	76,957	55%	34,631	900	7,500	2,069	25,962	1,800	240	3,500			49		10	3,400	11,000	350	15,196.4	10,765	
								1,500	143	982			12		1.28	974	8,500	284			
								4.9	2.8	5.6			0.04		0.04	3.2	62.7	2.8			
2017	78,971	55%	35,537	900	7,500	2,069	26,868	1,800	240	3,500			49		10	3,400	11,000	350	15,280.0	11,588	
								1,500	148	1,017			13		1.32	1,008	8,500	294			
								4.4	2.8	5.3			0.03		0.04	2.9	60.1	2.7			
2018	80,986	55%	36,444	900	7,500	2,069	27,775	1,800	240	3,500			49		10	3,400	11,000	350	15,363.7	12,411	
								1,500	153	1,051			13		1.36	1,042	8,500	304			
								4.0	2.7	5.0			0.03		0.04	2.5	57.4	2.6			
2019	82,912	55%	37,310	900	7,500	2,069	28,641	1,800	240	3,500			49		10	3,400	11,000	350	15,480.5	13,161	
								1,500	157	1,084			13		1.41	1,075	8,500	350			
								3.5	2.7	4.6			0.03		0.04	2.2	54.8	2.5			
2020	85,069	55%	38,281	900	7,500	2,069	29,612	1,800	240	3,500			49		10	3,400	11,000	350	15,559.4	14,052	
								1,500	163	1,120			14		1.45	1,111	8,500	350			
								3.0	2.6	4.3			0.02		0.03	1.8	52.1	2.4			
2021	86,878	55%	39,095	900	7,500	2,069	30,426	1,800	240	3,500			49		10	3,400	11,000	350	15,625.7	14,800	
								1,500	167	1,151			14		1.49	1,142	8,500	350			
								2.6	2.6	3.9			0.02		0.03	1.5	49.5	2.3			
2022	88,654	55%	39,894	900	7,500	2,069	31,225	1,800	240	3,500			49		10	3,400	11,000	350	15,690.7	15,534	
								1,500	172	1,181			15		1.53	1,172	8,500	350			
								2.1	2.5	3.6			0.012		0.03	C	46.8	2.2			
2023	90,482	55%	40,717	900	7,500	2,069	32,048	1,800	240	3,500			49		10		11,000	350	14,555.2	17,493	
								1,500	176	1,213			15		1.57		8,500	350			
								1.6	2.5	3.2			0.007		0.03		44.2	2.1			
2024	92,455	55%	41,605	900	7,500	2,069	32,935	1,800	240	3,500			49		10		11,000	350	14,594.2	18,341	
								1,500	181	1,246			15		1.62		8,500	350			
								1.2	2.4	2.8			C		0.03		41.5	2.0			

ASSUMPTIONS:

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

LEGEND:

- C -Closure due to exhausted capacity or permit expiration
E -Expansion may become effective
L -Does not accept waste from the City of Los Angeles and Orange County
R -Restricted Wasteshed
W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

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APPENDIX E-4
SCENARIO II - NO IMPORT, NO EXPORT

• Existing In-County Class III Landfills and Transformation Facilities

• Proposed Expansions of In-County Class III Landfills

•

						1	2	3	4	5	6	7	8	9	10	11	Total	
						IN-COUNTY CLASS III LANDFILLS												
						R	R			L	R	R		W	R			
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier	Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
	A	B	C=A(1-B)	D	E=C-D	Maximum Permitted Daily Capacity (tpd-6)												
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	Expected Average Daily Tonnage (tpd-6)												
						Remaining Capacity at Year's End (Million Tons)												G=E-F
																	F (tpd-6)	(tpd-6)
2009	64,780	55%	29,151	1,721	29,268	1,800 852 7.4	240 121 3.1	3,500 832 7.5	5,000 2,161 7.3	1,700 767 13.1	49 10.2 0.06	13,200 8,375 16.5	10 1.08 0.04	3,400 825 5.1	11,000 7,541 80.6	350 240 3.3	34,729.5	(5,462)
2010	64,780	55%	29,151	2,069	27,082	1,800 789 7.1	240 112 3.1	3,500 770 7.3	5,000 5,000 5.8	1,700 710 12.8	49 9 0.06	13,200 7,749 12.4	10 1.00 0.04	3,400 763 4.8	11,000 10,956 77.2	350 222 3.3	34,578.0	(7,496)
2011	64,494	55%	29,022	2,069	26,953	1,800 785 15.6	240 111 3.0	3,500 766 7.0	5,000 5,000 4.2	1,700 706 12.6	49 9 0.05	13,200 7,713 8.2	10 0.99 0.04	3,400 760 4.6	11,000 10,880 73.8	350 221 3.2	34,569.0	(7,616)
2012	66,196	55%	29,788	2,069	27,719	3,600 807 15.3	240 114 3.0	3,500 788 6.8	5,000 5,000 2.6	3,000 726 12.4	49 10 0.05	13,200 7,932 4.1	10 1.02 0.04	3,400 781 4.3	11,000 11,000 70.4	350 228 3.1	37,722.1	(10,003)
2013	68,450	55%	30,803	2,069	28,734	3,600 837 15.0	240 119 3.0	3,500 817 6.5	5,000 4,000 1.4	3,000 753 12.2	49 10 0.05	13,200 8,222 C	10 1.06 0.04	3,400 810 4.1	11,000 11,000 66.9	350 236 3.1	37,792.5	(9,059)
2014	70,583	55%	31,762	2,069	29,693	3,600 865 14.8	240 123 2.9	3,500 844 6.3	5,000 4,000 0.1	3,000 778 11.9	49 10 0.05		10 1.10 0.04	3,400 837 3.8	11,000 11,000 63.5	350 244 3.0	24,659.0	5,034
2015	72,730	55%	32,728	2,069	30,659	3,600 3,600 13.7	240 127 2.9	3,500 871 6.0	5,000 5,000 36.2	3,000 3,000 11.0	49 11 0.04		10 1.13 0.04	3,400 864 3.6	11,000 11,000 60.1	350 350 2.9	24,824.1	5,835
2016	74,890	55%	33,700	2,069	31,631	3,600 3,600 12.5	240 131 2.9	3,500 899 5.7	5,000 5,000 34.6	3,000 3,000 10.1	49 11 0.04		10 1.17 0.04	3,400 892 3.3	11,000 11,000 56.7	350 350 2.8	24,883.6	6,748
2017	76,957	55%	34,631	2,069	32,562	3,600 3,600 11.4	240 134 2.8	3,500 926 5.4	5,000 5,000 33.1	3,000 3,000 9.1	49 11 0.04		10 1.20 0.04	3,400 918 3.0	11,000 11,000 53.2	350 350 2.7	24,940.4	7,621
2018	78,971	55%	35,537	2,069	33,468	3,600 3,600 10.3	240 138 2.8	3,500 951 5.1	5,000 5,000 31.5	3,000 3,000 8.2	49 12 0.03		10 1.24 0.04	3,400 943 2.7	11,000 11,000 49.8	350 350 2.6	24,995.8	8,472
2019	80,986	55%	36,444	2,069	34,375	3,600 3,600 9.2	240 142 2.7	3,500 977 4.8	5,000 5,000 30.0	3,000 3,000 7.2	49 12 0.03		10 1.27 0.04	3,400 969 2.4	11,000 11,000 46.4	350 350 2.4	25,051.3	9,323
2020	82,912	55%	37,310	2,069	35,241	3,600 3,600 8.0	240 146 2.7	3,500 1,002 4.5	5,000 5,000 28.4	3,000 3,000 6.3	49 12 0.02		10 1.30 0.04	3,400 993 2.1	11,000 11,000 42.9	350 350 2.3	25,104.2	10,137
2021	85,069	55%	38,281	2,069	36,212	3,600 3,600 6.9	240 150 2.6	3,500 1,029 4.2	5,000 5,000 26.8	3,000 3,000 5.4	49 13 0.02		10 1.34 0.03	3,400 1,021 C	11,000 11,000 39.5	350 350 2.2	25,163.6	11,048
2022	86,878	55%	39,095	2,069	37,026	3,600 3,600 5.8	240 153 2.6	3,500 1,052 3.9	5,000 5,000 25.3	3,000 3,000 4.4	49 13 C		10 1.37 0.03		11,000 11,000 36.1	350 350 2.1	24,169.7	12,856
2023	88,654	55%	39,894	2,069	37,825	3,600 3,600 4.7	240 156 2.5	3,500 1,075 3.5	5,000 5,000 23.7	3,000 3,000 3.5			10 1.40 0.03		11,000 11,000 32.6	350 350 2.0	24,182.8	13,642
2024	90,482	55%	40,717	2,069	38,648	3,600 3,600 3.5	240 240 2.5	3,500 1,099 3.2	5,000 5,000 22.2	3,000 3,000 2.6			10 1.43 0.03		11,000 11,000 29.2	350 350 1.9	24,290.0	14,358

ASSUMPTIONS:

1. Waste Generation is estimated using the Waste Board's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA.
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/permit expiration
E -Expansion may become effective
L -Does not accept waste from the City of Los Angeles and Orange County
R -Restricted Watershed
W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

2009 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO III - EXPANSIONS

• Existing In-County Class III Landfills and Transformation Facilities

• Proposed Expansions of In-County Class III Landfills

• Imports up to 900 tpd; Exports up to 10,000 tpd

								1	2	3	4	5	6	7	8	9	10	11	Total		
								IN-COUNTY CLASS III LANDFILLS													
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Exports to Out-of County Disposal Facilities	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	R	R			R	R		W	R					
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier	Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)	
								Maximum Permitted Daily Capacity (tpd-6)													
								Expected Average Daily Tonnage (tpd-6)													
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F	Remaining Capacity at Year's End (Million Tons)												H	I=G-H
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	
2009	64,780	55%	29,151	609	5,703	1,721	29,268	1,800 852 7.4	240 121 3.1	3,500 832 7.5	5,000 2,161 7.3	1,700 767 13.1	49 10.2 0.06	13,200 8,375 16.5	10 1.08 0.04	3,400 825 5.1	11,000 7,541 80.6	350 240 3.3	34,729.5	(5,462)	
2010	64,780	55%	29,151	900	7,500	2,069	20,482	1,800 597 7.2	240 85 3.1	3,500 582 7.3	5,000 1,513 6.9	1,700 537 12.9	49 7 0.06	13,200 5,861 12.4	10 0.76 0.04	3,400 577 4.9	11,000 10,555 77.3	350 168 3.3	34,120.3	(13,639)	
2011	64,494	55%	29,022	900	7,500	2,069	20,353	1,800 593 15.7	240 84 3.1	3,500 579 7.2	5,000 1,503 6.4	1,700 533 12.8	49 7 0.06	13,200 5,824 8.2	10 0.75 0.04	3,400 574 4.7	11,000 10,489 74.1	350 167 3.2	34,111.4	(13,758)	
2012	66,196	55%	29,788	900	7,500	2,069	21,119	3,600 615 15.5	240 87 3.0	3,500 600 7.0	5,000 1,560 5.9	3,000 553 12.3	E 7 0.05	13,200 6,043 4.1	10 0.78 0.04	3,400 595 4.5	11,000 10,883 70.7	350 174 3.2	37,264.5	(16,145)	
2013	68,450	55%	30,803	900	7,500	2,069	22,134	3,600 645 15.3	240 91 3.0	3,500 629 6.8	5,000 1,635 5.4	3,000 580 12.2	49 8 0.05	13,200 6,333 C	10 0.82 0.04	3,400 624 4.3	11,000 11,000 67.2	350 182 3.1	37,334.8	(15,201)	
2014	70,583	55%	31,762	900	7,500	2,069	23,093	3,600 673 15.1	240 95 3.0	3,500 656 6.6	5,000 1,705 4.9	3,000 605 12.0	49 8 0.05	C C 0.05	10 0.85 0.04	3,400 651 4.1	11,000 11,000 63.8	350 190 3.1	24,201.4	(1,108)	
2015	72,730	55%	32,728	900	10,000	2,069	21,559	3,600 3,600 14.0	240 89 3.0	3,500 613 6.4	5,000 5,000 36.0	3,000 3,000 E 11.0	49 8 0.05	C C 0.05	10 0.80 0.04	3,400 608 3.9	11,000 11,000 60.4	350 177 3.0	24,095.0	(2,536)	
2016	74,890	55%	33,700	900	10,000	2,069	22,531	3,600 3,600 12.8	240 93 2.9	3,500 640 6.2	5,000 5,000 34.4	3,000 3,000 10.1	49 8 0.04	C C 0.04	10 0.83 0.04	3,400 635 3.7	11,000 11,000 56.9	350 185 3.0	24,162.4	(1,631)	
2017	76,957	55%	34,631	900	10,000	2,069	23,462	3,600 3,600 11.7	240 97 2.9	3,500 667 6.0	5,000 5,000 32.9	3,000 3,000 9.2	49 8 0.04	C C 0.04	10 0.87 0.04	3,400 661 3.5	11,000 11,000 53.5	350 193 2.9	24,226.9	(765)	
2018	78,971	55%	35,537	900	10,000	2,069	24,368	3,600 3,600 10.6	240 101 2.9	3,500 693 5.8	5,000 5,000 31.3	3,000 3,000 8.2	49 9 0.04	C C 0.04	10 0.90 0.04	3,400 687 3.3	11,000 11,000 50.1	350 200 2.8	24,289.8	78	
2019	80,986	55%	36,444	900	10,000	2,069	25,275	3,600 3,600 9.5	240 104 2.8	3,500 718 5.5	5,000 5,000 29.8	3,000 3,000 7.3	49 9 0.04	C C 0.04	10 0.93 0.04	3,400 712 3.1	11,000 11,000 46.6	350 208 2.8	24,352.6	922	
2020	82,912	55%	37,310	900	10,000	2,069	26,141	3,600 3,600 8.3	240 108 2.8	3,500 743 5.3	5,000 5,000 28.2	3,000 3,000 6.3	49 9 0.03	C C 0.03	10 0.96 0.04	3,400 737 2.9	11,000 11,000 43.2	350 215 2.7	24,412.7	1,728	
2021	85,069	55%	38,281	900	10,000	2,069	27,112	3,600 3,600 7.2	240 112 2.8	3,500 771 5.1	5,000 5,000 26.6	3,000 3,000 5.4	49 9 0.03	C C 0.03	10 1.00 0.04	3,400 764 2.6	11,000 11,000 39.8	350 223 2.6	24,480.0	2,632	
2022	86,878	55%	39,095	900	10,000	2,069	27,926	3,600 3,600 6.1	240 115 2.7	3,500 794 4.8	5,000 5,000 25.1	3,000 3,000 4.5	49 10 0.03	C C 0.03	10 1.03 0.04	3,400 787 2.4	11,000 11,000 36.3	350 350 2.5	24,657.1	3,269	
2023	88,654	55%	39,894	900	10,000	2,069	28,725	3,600 3,600 5.0	240 119 2.7	3,500 816 4.6	5,000 5,000 23.5	3,000 3,000 3.5	49 10 0.024	C C 0.024	10 1.06 0.04	3,400 810 2.1	11,000 11,000 32.9	350 350 2.4	24,705.9	4,019	
2024	90,482	55%	40,717	900	10,000	2,069	29,548	3,600 3,600 3.8	240 122 2.7	3,500 840 4.3	5,000 5,000 22.0	3,000 3,000 2.6	49 10 0.0209	C C 0.0209	10 1.09 0.03	3,400 833 C	11,000 11,000 29.5	350 350 2.3	24,756.2	4,792	

ASSUMPTIONS:

1. Waste Generation is estimated using the Waste Board's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA.
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/permit expiration
E -Expansion may become effective
L -Does not accept waste from the City of Los Angeles and Orange County
R -Restricted Watershed
W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

2009 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO IV - ALTERNATIVE TECHNOLOGIES

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Alternative technologies up to 10,000 tpd

									1	2	3	4	5	6	7	8	9	12	13	Total		
									IN-COUNTY CLASS III LANDFILLS													
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Exports to Out-of County Disposal Facilities	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbley Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier	Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)	
									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	H=C+D-E-F-G												I	J=H-I	
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	
2009	64,780	55%	29,151	609	5,703	1,721	0	29,268	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,729.5	(5,462)	
									852	121	832	2,161	767	10.2	8,375	1.08	825	7,541	240			
									7.4	3.1	7.5	7.3	13.1	0.06	16.5	0.04	5.1	80.6	3.3			
2010	64,780	55%	29,151	900	7,500	2,069	0	20,482	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,120.3	(13,639)	
									597	85	582	1,513	537	7	5,861	0.76	577	10,555	168			
									7.2	3.1	7.3	6.9	12.9	0.06	12.4	0.04	4.9	77.3	3.3			
2011	64,494	55%	29,022	900	7,500	2,069	0	20,353	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,111.4	(13,758)	
									593	84	579	1,503	533	7	5,824	0.75	574	10,489	167			
									15.7	E	3.1	7.2	6.4	12.8	0.06	8.2	0.04	4.7	74.1	3.2		
2012	66,196	55%	29,788	900	7,500	2,069	0	21,119	3,600	240	3,500	5,000	3,000	E	49	13,200	10	3,400	11,000	350	37,264.5	(16,145)
									615	87	600	1,560	553	7	6,043	0.78	595	10,883	174			
									15.5	3.0	7.0	5.9	12.3	0.05	4.1	0.04	4.5	70.7	3.2			
2013	68,450	55%	30,803	900	7,500	2,069	0	22,134	3,600	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	37,334.8	(15,201)	
									645	91	629	1,635	580	8	6,333	0.82	624	11,000	182			
									15.3	3.0	6.8	5.4	12.2	0.05	C	0.04	4.3	67.2	3.1			
2014	70,583	55%	31,762	900	7,500	2,069	1,000	22,093	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,132.0	(2,039)	
									643	91	628	1,632	579	8		0.82	623	11,000	182			
									15.1	3.0	6.6	4.9	12.0	0.05		0.04	4.1	63.8	3.1			
2015	72,730	55%	32,728	900	10,000	2,069	1,500	20,059	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,991.0	(3,932)	
									(332)	83	570	5,000	3,000	7		0.74	565	11,000	165			
									15.2	3.0	6.4	36.0	E	11.0	0.05	0.04	3.9	60.4	3.0			
2016	74,890	55%	33,700	900	10,000	2,069	2,000	20,531	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,023.7	(3,492)	
									3,600	85	584	5,000	3,000	7		0.76	579	11,000	169			
									14.1	2.9	6.2	34.4	10.1	0.04		0.04	3.8	56.9	3.0			
2017	76,957	55%	34,631	900	10,000	2,069	3,000	20,462	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,018.9	(3,557)	
									3,600	85	582	5,000	3,000	7		0.76	577	11,000	168			
									12.9	2.9	6.0	32.9	9.2	0.04		0.04	3.6	53.5	2.9			
2018	78,971	55%	35,537	900	10,000	2,069	4,000	20,368	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,012.4	(3,645)	
									3,600	84	579	5,000	3,000	7		0.75	574	11,000	167			
									11.8	2.9	5.9	31.3	8.2	0.04		0.04	3.4	50.1	2.9			
2019	80,986	55%	36,444	900	10,000	2,069	5,000	20,275	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,005.9	(3,731)	
									3,600	84	576	5,000	3,000	7		0.75	571	11,000	167			
									10.7	2.9	5.7	29.8	7.3	0.04		0.04	3.2	46.6	2.8			
2020	82,912	55%	37,310	900	10,000	2,069	6,000	20,141	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,996.7	(3,855)	
									3,600	83	573	5,000	3,000	7		0.74	568	11,000	165			
									9.6	2.8	5.5	28.2	6.4	0.04		0.04	3.1	43.2	2.8			
2021	85,069	55%	38,281	900	10,000	2,069	7,000	20,112	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,994.6	(3,883)	
									3,600	83	572	5,000	3,000	7		0.74	567	11,000	165			
									8.4	2.8	5.3	26.6	5.4	0.03		0.04	2.9	39.8	2.7			
2022	86,878	55%	39,095	900	10,000	2,069	8,000	19,926	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,981.7	(4,056)	
									3,600	82	566	5,000	3,000	7		0.74	562	11,000	164			
									7.3	2.8	5.1	25.1	4.5	0.03		0.04	2.7	36.3	2.7			
2023	88,654	55%	39,894	900	10,000	2,069	9,000	19,725	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,967.8	(4,243)	
									3,600	81	561	5,000	3,000	7		0.73	556	11,000	162			
									6.2	2.7	5.0	23.5	3.5	0.029		0.04	2.53	32.9	2.6			
2024	90,482	55%	40,717	900	10,000	2,069	10,000	19,548	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,955.5	(4,408)	
									3,600	81	556	5,000	3,000	7		0.72	551	11,000	161			
									5.1	2.7	4.8	22.0	2.6	0.0271		0.04	C	29.5	2.6			

ASSUMPTIONS:
1. Waste Generation is estimated using the Waste Board's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA.
2. **Daily Available Capacity**, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted wasteshed or Expected Average Daily Tonnage for facilities with a restricted wasteshed.

- LEGEND:
- C -Closure due to exhausted capacity/permit expiration
 - E -Expansion may become effective
 - L -Does not accept waste from the City of Los Angeles and Orange County
 - R -Restricted Wasteshed
 - W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

APPENDIX E-4
SCENARIO V - ALTERNATIVE TECHNOLOGIES & INCREASED DIVERSION

- | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 12 | 13 | Total | | | | | | | | |
|------|------------------------------------|----------------|-----------------------------|-----------------------------|--|---|---|--|---|-------------------|---------------------|--------------------------|------------------------|--------------------|-------------------------|--------------------|---------------------|------------------------------------|-------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | IN-COUNTY CLASS III LANDFILLS | | | | | | | | | | | | | | | | | | | |
| Year | Waste Generation Rate ¹ | Diversion Rate | Total Daily Disposal Demand | Imports from Other Counties | Exports to Out-of County Disposal Facilities | Daily Available Capacity from Transformation Facilities | Maximum Alternative Technology Capacity | Class III Landfill Daily Disposal Demand | Antelope Valley | Burbank | R
Calabasas | Chiquita | Lancaster | Pebbly Beach | L
Puente Hills | R
San Clemente | R
Scholl | W
Sunshine City/County Combined | R
Whittier | Daily Available Capacity ² from Class III Landfills | Class III Landfill Daily Disposal Capacity Shortfall (Reserve) | Decrease in Total Disposal Need due to Increased Diversion | | | | | | |
| | | | | | | | | | 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 | H=C+D-E-F-G | I | J=H-I | K=(55-B)A | | | | | | | | | |
| | (tpd-6) | | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | (tpd-6) | | | | | | | | | | | | | | | | |
| 2009 | 64,780 | 55% | 29,151 | 609 | 5,703 | 1,721 | 0 | 29,268 | 1,800
852
7.4 | 240
121
3.1 | 3,500
832
7.5 | 5,000
2,161
7.3 | 1,700
767
13.1 | 49
10.2
0.06 | 13,200
8,375
16.5 | 10
1.08
0.04 | 3,400
825
5.1 | 11,000
7,541
80.6 | 350
240
3.3 | 34,729.5 | (5,462) | | | | | | | |
| 2010 | 64,780 | 55% | 29,151 | 900 | 7,500 | 2,069 | 0 | 20,482 | 1,800
597
7.2 | 240
85
3.1 | 3,500
582
7.3 | 5,000
1,513
6.9 | 1,700
537
12.9 | 49
7
0.06 | 13,200
5,861
12.4 | 10
0.76
0.04 | 3,400
577
4.9 | 11,000
10,555
77.3 | 350
168
3.3 | 34,120.3 | (13,639) | 0 | | | | | | |
| 2011 | 64,494 | 55% | 29,022 | 900 | 7,500 | 2,069 | 0 | 20,353 | 1,800
593
15.7 E | 240
84
3.1 | 3,500
579
7.2 | 5,000
1,503
6.4 | 1,700
533
12.8 | 49
7
0.06 | 13,200
5,824
8.2 | 10
0.75
0.04 | 3,400
574
4.7 | 11,000
10,489
74.1 | 350
167
3.2 | 34,111.4 | (13,758) | 0 | | | | | | |
| 2012 | 66,196 | 55% | 29,788 | 900 | 7,500 | 2,069 | 0 | 21,119 | 3,600
615
15.5 | 240
87
3.0 | 3,500
600
7.0 | 5,000
1,560
5.9 | 3,000
553
12.3 | E
49
0.05 | 13,200
6,043
4.1 | 10
0.78
0.04 | 3,400
595
4.5 | 11,000
10,883
70.7 | 350
174
3.2 | 37,264.5 | (16,145) | 0 | | | | | | |
| 2013 | 68,450 | 55% | 30,803 | 900 | 7,500 | 2,069 | 0 | 22,134 | 3,600
645
15.3 | 240
91
3.0 | 3,500
629
6.8 | 5,000
1,635
5.4 | 3,000
580
12.2 | 49
8
0.05 | 13,200
6,333
C | 10
0.82
0.04 | 3,400
624
4.3 | 11,000
11,000
67.2 | 350
182
3.1 | 37,334.8 | (15,201) | 0 | | | | | | |
| 2014 | 70,583 | 56% | 31,056 | 900 | 7,500 | 2,069 | 1,000 | 21,387 | 3,600
623
15.1 | 240
88
3.0 | 3,500
608
6.6 | 5,000
1,579
4.9 | 3,000
560
12.0 | 49
7
0.05 | 13,200
6,043
C | 10
0.79
0.04 | 3,400
603
4.1 | 11,000
11,000
63.8 | 350
176
3.1 | 24,083.1 | (2,696) | (706) | | | | | | |
| 2015 | 72,730 | 57% | 31,274 | 900 | 10,000 | 2,069 | 1,500 | 18,605 | 3,600
2,500
14.3 | 240
77
3.0 | 3,500
529
6.4 | 5,000
5,000
36.0 E | 3,000
2,500
11.2 | 49
7
0.05 | 13,200
6,043
C | 10
0.69
0.04 | 3,400
524
4.0 | 11,000
7,314
61.5 | 350
153
3.0 | 23,890.1 | (5,286) | (1,455) | | | | | | |
| 2016 | 74,890 | 58% | 31,454 | 900 | 10,000 | 2,069 | 2,000 | 18,285 | 3,600
2,500
13.5 | 240
76
2.9 | 3,500
520
6.3 | 5,000
5,000
34.4 | 3,000
2,500
10.4 | 49
6
0.05 | 13,200
6,043
C | 10
0.67
0.04 | 3,400
515
3.8 | 11,000
7,017
59.3 | 350
150
3.0 | 23,867.9 | (5,583) | (2,247) | | | | | | |
| 2017 | 76,957 | 59% | 31,552 | 900 | 10,000 | 2,069 | 3,000 | 17,383 | 3,600
2,377
12.8 | 240
72
2.9 | 3,500
494
6.1 | 5,000
4,754
33.0 | 3,000
2,377
9.7 | 49
6
0.04 | 13,200
6,043
C | 10
0.64
0.04 | 3,400
490
3.7 | 11,000
6,671
57.2 | 350
143
2.9 | 23,805.4 | (6,422) | (3,078) | | | | | | |
| 2018 | 78,971 | 60% | 31,588 | 900 | 10,000 | 2,069 | 4,000 | 16,419 | 3,600
2,245
12.1 | 240
68
2.9 | 3,500
467
6.0 | 5,000
4,490
31.6 | 3,000
2,245
9.0 | 49
6
0.04 | 13,200
6,043
C | 10
0.61
0.04 | 3,400
463
3.5 | | | | | | | | | | | |

1. Waste Generation is estimated using the Waste Board's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA.

2. **Daily Available Capacity**, in blue text, is based on Maximum Permitted Daily Capacity for facilities without a restricted wasteshed or Expected Average Daily Tonnage for facilities with a restricted wasteshed.

- C -Closure due to exhausted capacity/permit expiration
- E -Expansion may become effective
- L -Does not accept waste from the City of Los Angeles and Orange County
- R -Restricted Wasteshed
- W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

2009 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO VI - INCREASED EXPORT

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Imports up to 900 tpd; Exports up to 16,000 tpd

								1	2	3	4	5	6	7	8	9	12	13	Total			
								IN-COUNTY CLASS III LANDFILLS														
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Exports to Out-of County Disposal Facilities	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	R	R	L	R	R	W	R					Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal Demand		
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier				
								Maximum Permitted Daily Capacity (tpd-6)														
								Expected Average Daily Tonnage (tpd-6)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F	Remaining Capacity at Year's End (Million Tons)													H	I=G-H
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)		
2009	64,780	55%	29,151	609	5,703	1,721	29,268	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,729.5	(5,462)		
								852	121	832	2,161	767	10.2	8,375	1.08	825	7,541	240				
								7.4	3.1	7.5	7.3	13.1	0.06	16.5	0.04	5.1	80.6	3.3				
2010	64,780	55%	29,151	900	7,500	2,069	20,482	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,120.3	(13,639)		
								597	85	582	1,513	537	7	5,861	0.76	577	10,555	168				
								7.2	3.1	7.3	6.9	12.9	0.06	12.4	0.04	4.9	77.3	3.3				
2011	64,494	55%	29,022	900	7,500	2,069	20,353	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,111.4	(13,758)		
								593	84	579	1,503	533	7	5,824	0.75	574	10,489	167				
								15.7	3.1	7.2	6.4	12.8	0.06	8.2	0.04	4.7	74.1	3.2				
2012	66,196	55%	29,788	900	7,500	2,069	21,119	3,600	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	37,264.5	(16,145)		
								615	87	600	1,560	553	7	6,043	0.78	595	10,883	174				
								15.5	3.0	7.0	5.9	12.3	0.05	4.1	0.04	4.5	70.7	3.2				
2013	68,450	55%	30,803	900	7,500	2,069	22,134	3,600	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	37,334.8	(15,201)		
								645	91	629	1,635	580	8	6,333	0.82	624	8,500	182				
								15.3	3.0	6.8	5.4	12.2	0.05	C	0.04	4.3	68.0	3.1				
2014	70,583	55%	31,762	900	7,500	2,069	23,093	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,201.4	(1,108)		
								673	95	656	3,500	605	8		0.85	651	8,500	190				
								15.1	3.0	6.6	4.3	12.0	0.05		0.04	4.1	65.4	3.1				
2015	72,730	55%	32,728	900	10,000	2,069	21,559	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,095.0	(2,536)		
								1,200	89	613	3,500	1,500	8		0.80	608	8,500	177				
								14.7	3.0	6.4	36.0	E	11.5	0.05	0.04	3.9	62.7	3.0				
2016	74,890	55%	33,700	900	10,500	2,069	22,031	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,127.7	(2,096)		
								1,200	91	626	3,500	1,500	8		0.81	621	8,500	181				
								14.3	2.9	6.2	34.9	11.0	0.04		0.04	3.7	60.1	3.0				
2017	76,957	55%	34,631	900	11,000	2,069	22,462	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,157.6	(1,696)		
								1,200	93	638	3,500	1,500	8		0.83	633	8,500	185				
								14.0	2.9	6.0	33.8	10.6	0.04		0.04	3.5	57.4	2.9				
2018	78,971	55%	35,537	900	11,000	2,069	23,368	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,220.4	(853)		
								1,200	97	664	3,500	1,500	8		0.86	659	8,500	192				
								13.6	2.9	5.8	32.7	10.1	0.04		0.04	3.3	54.8	2.8				
2019	80,986	55%	36,444	900	11,000	2,069	24,275	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,283.3	(9)		
								1,200	100	690	3,500	1,500	9		0.90	684	8,500	199				
								13.2	2.8	5.6	31.6	9.6	0.04		0.04	3.1	52.1	2.8				
2020	82,912	55%	37,310	900	12,000	2,069	24,141	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,274.0	(133)		
								1,200	100	686	3,500	1,500	8		0.89	680	8,500	198				
								12.8	2.8	5.4	30.5	9.2	0.03		0.04	2.9	49.4	2.7				
2021	85,069	55%	38,281	900	13,000	2,069	24,112	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,272.0	(160)		
								1,200	100	685	3,500	1,500	8		0.89	680	8,500	198				
								12.5	2.8	5.1	29.4	8.7	0.03		0.04	2.7	46.8	2.7				
2022	86,878	55%	39,095	900	14,000	2,069	23,926	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,259.1	(333)		
								1,200	99	680	3,500	1,500	8		0.88	674	8,500	197				
								12.1	2.7	4.9	28.4	8.2	0.03		0.04	2.5	44.1	2.6				
2023	88,654	55%	39,894	900	15,000	2,069	23,725	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,245.2	(520)		
								1,200	98	674	3,500	1,500	8		0.88	669	8,500	195				
								11.7	2.7	4.7	27.3	7.8	0.026		0.04	2.3	41.5	2.5				
2024	90,482	55%	40,717	900	16,000	2,069	23,548	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,232.9	(685)		
								1,200	97	669	3,500	1,500	8		0.87	664	8,500	193				
								11.3	2.7	4.5	26.2	7.3	0.0235		0.04	C	38.8	2.5				

ASSUMPTIONS:

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

LEGEND:

- C -Closure due to exhausted capacity/permit expiration
- E -Expansion may become effective
- L -Does not accept waste from the City of Los Angeles and Orange County
- R -Restricted Wasteshed
- W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

2009 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO VII - INCREASED EXPORT & DIVERSION

- Existing In-County Class III Landfills and Transformation Facilities
- Proposed Expansions of In-County Class III Landfills
- Increased Diversion Rate up to 65 Percent
- Imports up to 900 tpd; Exports up to 16,000 tpd

								1	2	3	4	5	6	7	8	9	12	13	Total				
								IN-COUNTY CLASS III LANDFILLS															
								R	R			L	R	R	W	R							
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Exports to Out-of County Disposal Facilities	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier	Daily Available Capacity ² from Class III Landfills	Class III Landfill Daily Disposal	Decrease in Total Disposal		
								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=(55-B)A		
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)		
2009	64,780	55%	29,151	609	5,703	1,721	29,268	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,729.5	(5,462)			
								852	121	832	2,161	767	10.2	8,375	1.08	825	7,541	240					
								7.4	3.1	7.5	7.3	13.1	0.06	16.5	0.04	5.1	80.6	3.3					
2010	64,780	55%	29,151	900	7,500	2,069	20,482	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,120.3	(13,639)	0		
								597	85	582	1,513	537	7	5,861	0.76	577	10,555	168					
								7.2	3.1	7.3	6.9	12.9	0.06	12.4	0.04	4.9	77.3	3.3					
2011	64,494	55%	29,022	900	7,500	2,069	20,353	1,800	240	3,500	5,000	1,700	49	13,200	10	3,400	11,000	350	34,111.4	(13,758)	0		
								593	84	579	1,503	533	7	5,824	0.75	574	10,489	167					
								15.7	E	3.1	7.2	6.4	12.8	0.06	8.2	0.04	4.7	74.1	3.2				
2012	66,196	55%	29,788	900	7,500	2,069	21,119	3,600	240	3,500	5,000	3,000	E	49	13,200	10	3,400	11,000	350	37,264.5	(16,145)	0	
								615	87	600	1,560	553	7	6,043	0.78	595	10,883	174					
								15.5	3.0	7.0	5.9	12.3	0.05	4.1	0.04	4.5	70.7	3.2					
2013	68,450	55%	30,803	900	7,500	2,069	22,134	3,600	240	3,500	5,000	3,000	49	13,200	10	3,400	11,000	350	37,334.8	(15,201)	0		
								645	91	629	1,635	580	8	6,333	0.82	624	8,500	182					
								15.3	3.0	6.8	5.4	12.2	0.05		C	0.04	4.3	68.0	3.1				
2014	70,583	56%	31,056	900	7,500	2,069	22,387	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	24,152.4	(1,765)	(657)		
								652	92	636	1,500	587	8		0.83	631	8,500	184					
								15.1	3.0	6.6	4.9	12.0	0.05		0.04	4.1	65.4	3.1					
2015	72,730	57%	31,274	900	10,000	2,069	20,105	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,994.1	(3,890)	(1,354)		
								1,200	83	571	1,500	1,500	7		0.74	567	8,500	165					
								14.7	3.0	6.4	36.0	E	11.5	0.05		0.04	3.9	62.7	3.0				
2016	74,890	58%	31,454	900	10,500	2,069	19,785	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,971.9	(4,187)	(2,091)		
								1,200	82	562	1,500	1,500	7		0.73	558	8,500	163					
								14.3	2.9	6.2	35.5	11.0	0.04		0.04	3.8	60.1	3.0					
2017	76,957	59%	31,552	900	11,000	2,069	19,383	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,944.1	(4,561)	(2,865)		
								1,200	80	551	1,500	1,500	7		0.72	546	8,500	159					
								14.0	2.9	6.1	35.1	10.6	0.04		0.04	3.6	57.4	2.9					
2018	78,971	60%	31,588	900	11,000	2,069	19,419	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,946.6	(4,527)	(3,675)		
								1,200	80	552	1,500	1,500	7		0.72	547	8,500	160					
								13.6	2.9	5.9	34.6	10.1	0.04		0.04	3.4	54.8	2.9					
2019	80,986	61%	31,585	900	11,000	2,069	19,415	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,946.3	(4,531)	(4,522)		
								1,200	80	552	1,500	1,500	7		0.72	547	8,500	160					
								13.2	2.9	5.7	34.1	9.6	0.04		0.04	3.3	52.1	2.8					
2020	82,912	62%	31,506	900	12,000	2,069	18,337	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,871.6	(5,534)	(5,401)		
								1,200	76	521	1,417	1,416	6		0.68	517	13,033	151					
								12.8	2.8	5.5	33.7	9.2	0.04		0.04	3.1	48.0	2.8					
2021	85,069	63%	31,475	900	13,000	2,069	17,306	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,800.1	(6,494)	(6,334)		
								1,133	71	492	1,337	1,337	6		0.64	488	12,300	142					
								12.5	2.8	5.4	33.3	8.8	0.03		0.04	2.9	44.2	2.7					
2022	86,878	64%	31,276	900	14,000	2,069	16,107	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,716.9	(7,610)	(7,277)		
								1,054	67	458	1,244	1,244	6		0.59	454	11,447	132					
								12.2	2.8	5.3	32.9	8.4	0.03		0.04	2.8	40.6	2.7					
2023	88,654	65%	31,029	900	15,000	2,069	14,860	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,630.4	(8,771)	(8,251)		
								972	61	422	1,148	1,148	5		0.55	419	10,561	122					
								11.8	2.8	5.1	32.5	8.0	0.031		0.04	2.7	37.3	2.7					
2024	90,482	65%	31,669	900	16,000	2,069	14,500	3,600	240	3,500	5,000	3,000	49		10	3,400	11,000	350	23,605.5	(9,106)	(8,421)		
								949	60	412	1,120	1,120	5		0.54	409	10,305	119					
								11.6	2.8	5.0	32.2	7.7	0.029		0.04	2.5	34.1	2.6					

ASSUMPTIONS:

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

LEGEND:

- C -Closure due to exhausted capacity/permit expiration
- E -Expansion may become effective
- L -Does not accept waste from the City of Los Angeles and Orange County
- R -Restricted Wasteshed
- W -Does not accept waste from jurisdictions outside the County of Los Angeles

Source: Los Angeles County Department of Public Works, February 2011

Appendix E-5 Transfer and Processing Facilities

*Permitted Large Volume Solid Waste Transfer/Processing Facilities in
Los Angeles County and Type of Operation in 2009*

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	4,032	1,425
3	Angelus Western Paper Fibers, Inc.	2474 Porter Street, Los Angeles, 90021	700	449
4	Bel-Art Waste Transfer Station	2501 East 68th Street Long Beach, 90805	1,500	1,270
5	Bradley East Transfer Station	9227 Tujunga Avenue, Sun Valley, 91352	1,500	n/a
6	Carson Transfer Station	321 West Francisco Street, Carson, 90745	5,300	178
7	Central LA Recycling & Transfer Station	2201 Washington Boulevard, Los Angeles, 90034	4,025	995
8	City Of Santa Monica Transfer Station	2500 Michigan Avenue, Santa Monica, 90404	400	283
9	Compton Recycling & Transfer Station	2509 West Rosecrans Avenue, Compton, 90220	1,500	1,104
10	Culver City Transfer/Recycling Station	9255 West Jefferson Boulevard, Culver City, 90232	500	155
11	East Street Maintenance District Yard	452 San Fernando Road, Los Angeles, 90065	315	70
12	Granada Hills Street MDY	10210 Etiwanda Avenue, Northridge, 91325	450	50
13	Grand Central Recycling & Transfer Station	999 Hatcher Boulevard, City of Industry, 91744	5,000	909
14	Mission Recycling/West Coast Recycling	1326 East Ninth Street, Pomona, 91766	300	n/a
15	Mission Road Recycling & Transfer Station	840 South Mission Road, Los Angeles, 90033	1,785	835
16	Norwalk Transfer Station	13780 East Santa Fe Springs, 90670	100	56
17	Paramount Resource Recycling Facility	7230 Petterson Lane, Paramount, 90723	2,450	329
18	Pomona Municipal Direct Transfer Facility	1730 East First Street, Pomona, 91766	150	158
19	South Gate Transfer Station	9530 South Garfield Avenue, South Gate, 90280	1,000	447
20	Southern Cal. Disposal Co. R. & TS	1908 Frank Street, Santa Monica, 90404	1,056	446
21	Southwest Street MDY	5860 South Wilton Place, Los Angeles, 90047	225	80
22	Van Nuys Street MDY	15145 Oxnard Street, Van Nuys, 91411	225	54
23	Waste Management South Gate Transfer	4489 Ardine Street, South Gate, 90280	2,000	404
24	Western District Satellite Yard	6000 West Jefferson Boulevard, Los Angeles 90016	150	n/a

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	2,277
2	Athens Sun Valley MRF	11121 Pendleton Street, Sun Valley, 91352	1,500	138
3	California Waste Services, LLC	621 West 152 Street, Gardena, 90247	1000	254
4	City Terrace Recycling Transfer Station	1511-1525 Fishburn Avenue, City Terrace, 90063	700	293
5	Community Recycling & Resource Recovery, Inc.	9147 De Garmo Avenue, Sun Valley, 91352	1,700	41
6	Construction & Demolition Recycling	621 West 152 Street, Gardena, 90247	1,500	n/a
7	Downey Area Recycling & Transfer	9770 Washburn Road, Downey, 90241	5,000	568
8	East Los Angeles Recycling And Transfer	1512 North Bonnie Beach Place, City Terrace, 90063	700	553
9	Falcon Refuse Center, Inc.	3031 East "I" Street, Wilmington, 90744	1,850	n/a
10	Grand Central Recycling & Transfer Station	999 Hatcher Boulevard, Industry, 91744	5,000	909
11	Innovative Waste Control	4133 Bandini Boulevard, Vernon, 90023	1,250	951
12	Puente Hills Materials Recovery Facility	2808 Workman Mill Road, Whittier, 90601	4,400	376
13	Waste Resource Recovery	357 West Compton Boulevard, Gardena, 90248	500	276

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	58
2	City Fibers – West Valley Plant	16714 Schoenborn Street, Los Angeles, 91343	255	n/a
3	City Fibers - LA Plant No. 2	2545 East 25th Street Los Angeles, CA 90058	320	n/a
4	Los Angeles Express Materials Rec. Fac.	6625 Stanford Avenue, Los Angeles, CA 90001	240	82
5	Pico Rivera MRF	8405 Loch Lomand Drive, Pico Rivera, CA 91660	327	87
6	Sun Valley Paper Stock MRF and TS	8701 North San Fernando Road, Sun Valley, 91352	750	243

Construction and Demolition / Processing

	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	Cordova Construction Services	12506 Montague Street, Pacoima, 91331	80	n/a
3	Direct Disposal C & D Recycling	3720 Noakes Street, Los Angeles, 90023	133	n/a

Composting Facility / Landfill

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Pebbly Beach (Avalon) Disposal Site	1 Dump Road Avalon, 90704	49	17
2	Agromin Premium Soil Products	Potrero Canyon Road, Newhall, 91381	200	n/a

Notes: 1. Facilities listed are permitted by the California Integrated Waste Management Board as “Large Volume Transfer/Processing” or “Direct Transfer” Facilities with daily capacity of at least 100 tpd.

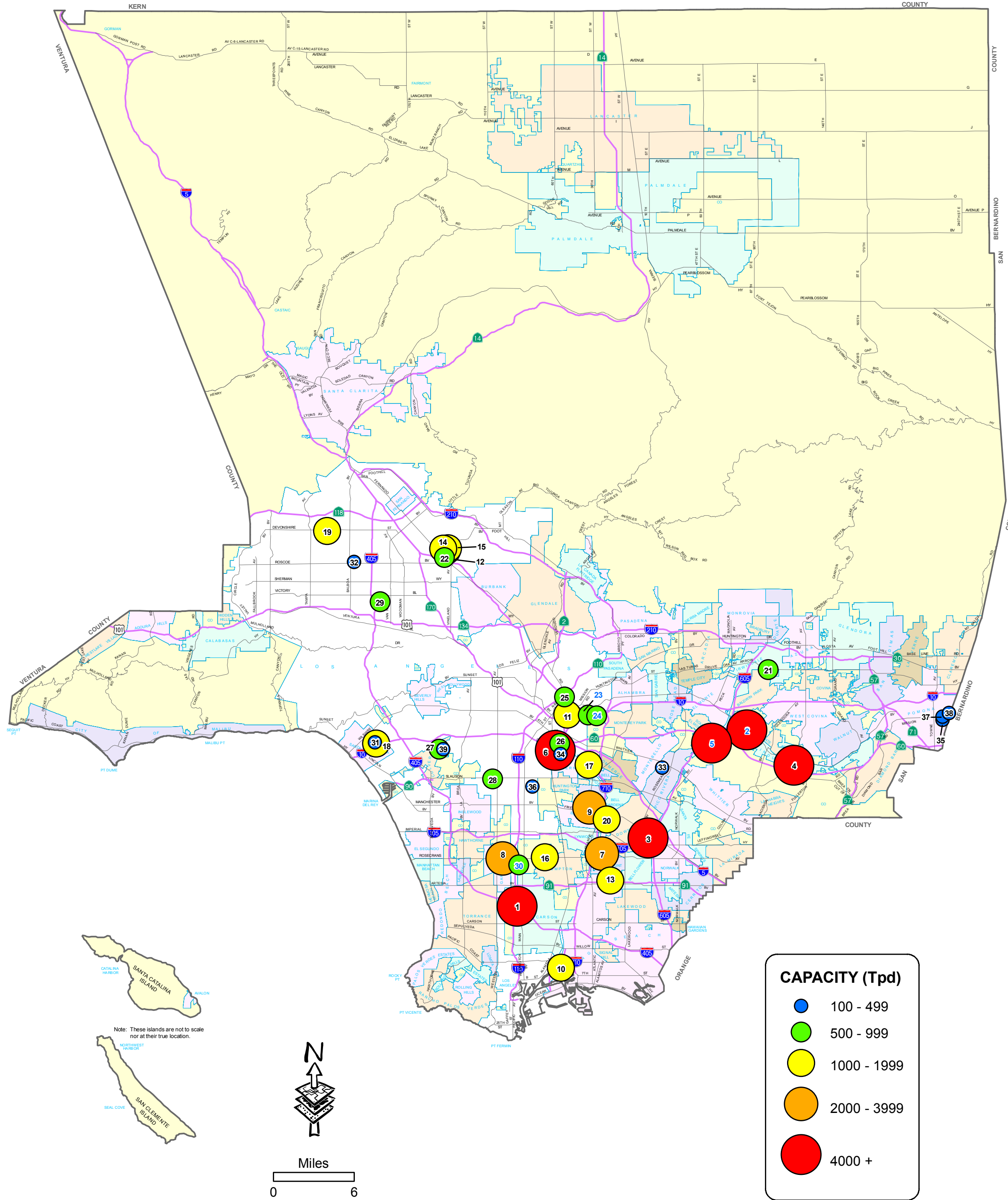
2. Permitted capacity is based on the Max. Permitted Throughput as specified in the Solid Waste Facility Permit. If capacity is in cubic yards, a conversion factor of 900 lbs/cubic yard for an uncompacted load is assumed.

3. Tpd is tons per day based on 6 operating days a week, 312 days a year.

Appendix E-6 Map of Disposal by Jurisdiction of Origin



Permitted Large Volume Solid Waste Transfer and Processing Facilities in Los Angeles County in 2009



NO.	FACILITY NAME AND ADDRESS	PERMITTED CAPACITY (Tpd)
1	Carson Transfer Station & Materials Recovery Facility 321 West Francisco Street, Carson, 90745	5,300
2	Athens Services 14048 East Valley Boulevard, Industry, 91746	5,000
3	Downey Area Recycling & Transfer 9770 Washburn Road, Downey, 90241	5,000
4	Grand Central Recycling & Transfer Station 999 Hatcher Boulevard, City of Industry, 91744	5,000
5	Puente Hills Materials Recovery Facility 2808 Workman Mill Road, Whittier, 90601	4,400
6	Central LA Recycling & Transfer Station 2201 Washington Boulevard, Los Angeles, 90034	4,025
7	Paramount Resource Recycling Facility 7230 Petterson Lane, Paramount, 90723	2,450
8	American Waste Transfer Station 1449 West Rosecrans Avenue, Gardena, 90247	2,225
9	Waste Management South Gate Transfer 4489 Ardine Street, South Gate, 90280	2,000
10	Falcon Refuse Center, Inc. (Allied/BFI Waste Systems, Falcon) 3031 East "I" Street, Wilmington, 90744	1,850
11	Mission Road Recycling & Transfer Station 840 South Mission Road, Los Angeles, 90033	1,785
12	Community Recycling & Resource Recovery, Inc. 9147 De Garmo Avenue, Sun Valley, 91352	1,700
13	Bel-Art Waste Transfer Station 2501 East 68th Street, Long Beach, 90805	1,500
14	Bradley East Transfer Station 9227 Tujunga Avenue, Sun Valley, 91352	1,500
15	Athens Sun Valley Materials Recycling & Transfer Station 11121 Pendleton Street, Sun Valley, 91352	1,500
16	Compton Recycling & Transfer Station (Allied/BFI Waste Systems, Compton) 2509 West Rosecrans Avenue, Compton, 90220	1,500
17	Innovative Waste Control 4133 Bandidi Boulevard, Vernon, 90023	1,250
18	Southern California Disposal Company Recycling & Transfer Station 1908 Frank Street, Santa Monica, 90404	1,056
19	Granada Hills Street Maintenance District Yard 10210 Etiwanda Avenue, Northridge, 91325	1,000
20	South Gate Transfer Station 9530 South Garfield Avenue, South Gate, 90280	1,000
21	Allan Company Baldwin Park 14604-14618 Arrow Highway, Baldwin Park, 91706	750
22	Sun Valley Paper Stock Materials Recovery Facility & Transfer Station 8701 North San Fernando Road, Sun Valley, 91352	750
23	City Terrace Recycling Transfer Station 1511-1525 Fishburn Avenue, City Terrace, 90063	700
24	East Los Angeles Recycling And Transfer 1512 North Bonnie Beach Place, City Terrace, 90063	700
25	East Street Maintenance District Yard 452 San Fernando Road, Los Angeles, 90065	700
26	Angelus Western Paper Fibers, Inc. 2474 Porter Street, Los Angeles, 90021	650
27	Culver City Transfer/Recycling Station 9255 West Jefferson Boulevard, Culver City, 90232	500
28	Southwest Street Maintenance District Yard 5860 South Wilton Place, Los Angeles, 90047	500
29	Van Nuys Street Maintenance District Yard 15145 Oxnard Street, Van Nuys, 91411	500
30	Waste Resource Recovery 357 West Compton Boulevard, Gardena, 90248	500
31	City Of Santa Monica Transfer Station 2500 Michigan Avenue, Santa Monica, 90404	400
32	City Fibers - West Valley Plant 16714 Schoenborn Street, Los Angeles, 91343	350
33	Pico Rivera MRF 8405 Loch Lomand Drive, Pico Rivera, 91660	327
34	City Fibers - LA Plant #2 2545 East 25th Street, Los Angeles, 90058	300
35	Mission Recycling/West Coast Recycling 1326 East Ninth Street, Pomona, 91766	300
36	Los Angeles Express Materials Rec. Fac. 6625 Stanford Avenue, Los Angeles, 90001	240
37	Mission Recycling/West Coast Recycling 1341 East Mission Boulevard, Pomona, 91766	200
38	Pomona Municipal Direct Transfer Facility 1730 East First Street, Pomona, 91766	150
39	Western District Satellite Yard 6000 West Jefferson Boulevard, Los Angeles, 90016	149

NOTES:
1 - Facilities listed are permitted by the California Integrated Waste Management Board as "Large Volume Transfer/Processing" or "Direct Transfer" Facilities with daily capacity of more than 100 tpd.
2 - Permitted capacity is based on the Max. Permitted Throughput as specified in the Solid Waste Facility Permit. If capacity is in cubic yards, a conversion factor of 900 lbs/cubic yard for an uncompacted load is assumed.
3 - Tpd is tons per day based on 6 operating days a week, 312 days a year.
4 - Addresses shown in blue are located in the County unincorporated areas.



WASTE DISPOSAL BY JURISDICTION OF ORIGIN AT PERMITTED MUNICIPAL SOLID WASTE FACILITIES IN LOS ANGELES COUNTY 2009

