

VOLUME 3

**DRAFT
ENVIRONMENTAL IMPACT STATEMENT**

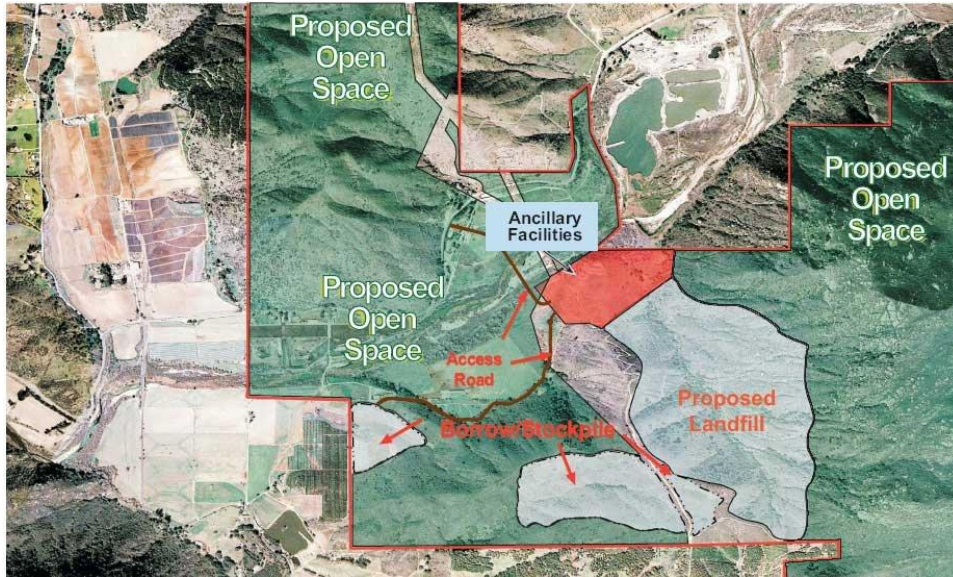
GREGORY CANYON LANDFILL

San Diego County, California

APPENDIX B –PURPOSE AND NEED

- Needs Assessment of the Proposed Gregory Canyon Landfill in Northern San Diego County, R3 Consulting Group, April 14, 2011

Needs Assessment of the Proposed Gregory Canyon Landfill in Northern San Diego County



Prepared for:
United States Army Corps of Engineers



US Army Corps
of Engineers

April 14, 2011

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1.0 Introduction

1.1 Purpose and Scope

This Needs Assessment is intended solely for the U.S. Army Corps of Engineers (Corps) and has been completed in support of an Environmental Impact Statement (EIS) undertaken by the Corps for the proposed Gregory Canyon Landfill (GCL) in northern San Diego County. The proposed GCL facility would have a permitted disposal capacity of 57.5 million cubic yards (approximately 28.75 tons) and accept mixed municipal waste without restrictions as to point of origin. This Needs Assessment will assist in defining the Purpose and Need Statement that will be included in the Draft EIS, as well as the overall project purpose, while also addressing comments regarding the need for the project that were received during the scoping process for the EIS.

The specific goal of this Needs Assessment is to provide the Corps with an independent review to address if a new regional landfill is warranted in the general vicinity of the proposed GCL site. The Corps has specifically requested that this Needs Assessment address how the proposed GCL would affect current and/or projected future disposal capacity requirements in a six county region comprised of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties. For the purposes of this Needs Assessment, this six county region is referred to as the “Waste Shed.”

1.2 Limitations

This Needs Assessment is not intended to endorse any landfill, including GCL, nor is it intended to provide any legal opinion on the validity of GCL. This Needs Assessment does not account for engineering, economic or political issues, nor does it factor in the potential for expansion of current landfills. The potential expansion of current landfill facilities is not analyzed because this Needs Assessment considers disposal capacity under current permitted conditions. Litigation and/or permitting process time-frames vary; accordingly, no assumptions concerning potential landfill expansions were incorporated into this Needs Assessment. However, projections have been made with the addition of the proposed GCL disposal capacity to illustrate the potential effect on the Waste Shed and San Diego County. Additionally, although competition and economic variables play a significant role in the waste flow system, these topics have not been addressed in this Needs Assessment.

Information obtained from contacted jurisdictions, haulers, and facility operators was limited to gathering information about

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current diversion rates and future diversion goals, permitted capacity, disposal agreements, and waste flow restrictions. It should be noted, however, that diversion rates for each jurisdiction within the Waste Shed have not been factored into the projections or analyses. Due to the varied diversion rates amongst each jurisdiction within the Waste Shed, future decreases in disposal tonnages have been assumed and applied uniformly to the Waste Shed. This Needs Assessment is also limited by the amount of current written information available and the amount of information that was able to be documented within the time-frame of the study. The analyzed region in this Needs Assessment is large and encompasses a system that is dynamic and changes frequently; consequently, it is challenging to account for each shifting variable when conducting an analysis of this scope.

1.3 Waste Shed

Within the Waste Shed, there are 212 jurisdictions (206 cities and 6 counties) that disposed of a combined total of 17.8 million tons of solid waste in 2009. The 2009 disposal number represents an approximate 12.5% decrease from the 2008 total of 20.3 million tons disposed, and a 21.4% decrease compared to the 2007 total of 22.5 million tons disposed.¹ However, this recent trend is likely related to current economic conditions and is not expected to continue.

There are 45 landfill facilities permitted to accept municipal solid waste within the Waste Shed; estimated closure dates for these landfill facilities range from 2012 to 2257. With 600 million tons of disposal capacity recently made available by Mesquite Regional Landfill (MRL), located in western Imperial County, the Waste Shed has approximately 1.02 billion tons of available disposal capacity dispersed among the 45 landfill facilities.

2.0 Background

2.1 Contractual Issues that Affect Disposal Flows

San Bernardino, Riverside, and Orange Counties have existing disposal agreements with some or all of their respective cities and/or waste haulers. These agreements essentially direct the waste that is produced within the respective city or collected by the respective hauler to go to a landfill or transfer station facility within that county.

- Orange County requires all waste disposed of within the county to go to a landfill facility within the county. There are

¹ Per the 2007, 2008, and 2009 Landfill Tonnage Reports and the Disposal Reporting System on the CalRecycle website.

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currently two companies that have agreements with Orange County to bring in out-of-county waste; however, these agreements expire in 2016 and Orange County does not anticipate extending or renewing any agreements to bring in out-of-county waste.²

- The County of San Bernardino is in the process of negotiating new waste disposal agreements with 16 of the cities within San Bernardino County. The current contracts are set to expire between 2012 and 2019. San Bernardino County requires that their franchised hauler import between 20,000 and 100,000 tons per year of out-of-county waste.³
- Riverside County currently has seven-year evergreen agreements with the unincorporated area waste haulers. These agreements require the hauler to direct waste to a designated transfer station or landfill facility within Riverside County. If the waste is directed to a transfer station, the transfer station operator must direct the waste to a landfill within Riverside County. Riverside County charges an extra five dollars per ton for out-of-county waste at Riverside County owned and/or operated landfills. There is no current contractual out-of-county waste flow disposed of within Riverside County owned and/or operated landfills; any such out-of-county waste flow would require a contractual agreement.⁴ Additionally Riverside County disposed of all of their municipal solid waste in-County in 2009.⁵

Los Angeles and San Diego Counties do not have waste disposal agreements with their respective cities, and do not have restrictions on importation or exportation of disposed materials.

Imperial County does not have disposal agreements with their respective cities; however, the City of Imperial has a disposal agreement with its hauler to deliver waste to one of two landfills in-county or Copper Mountain Landfill in Arizona. For a discussion of restrictions on waste flow to MRL, please see Section 2.2.1.

In addition to the above contractual restrictions on disposal flows, disposal and transfer costs, location of facilities, ownership of facilities, inter- and intra-company agreements, the ability or

² Per email correspondence with Rochelle Carpenter of Orange County Waste and Recycling.

³ Per email correspondence with Mary Patterson, Solid Waste Programs Administrator, Solid Waste Management Division, San Bernardino County Department of Public Works.

⁴ Per email correspondence with Bob Anderson, Program Administrator, Riverside County Waste Management Department.

⁵ Per the Disposal Reporting System on the CalRecycle website.

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inability of haulers to pass on higher tip fees to their customers, and vertical integration of private companies that provide collection, transfer, and disposal services all affect disposal flows. For example, due to the cost of MRL and the intermodal facilities, it is expected that the fee for transporting and disposing of waste at MRL will be substantially higher than the current \$38.26/ton fee charged at Puente Hills Landfill (PHL). Substantially higher tipping fees for the use of MRL may result in tons currently disposed at PHL to be disposed of at other regional landfills and/or other landfills pricing disposal fees to attract displaced PHL disposal tonnage.

2.2 New and Proposed Regional Facilities That May Affect Disposal Flows

There is one new and three proposed landfills that may affect the disposal flows in the Waste Shed. Each of these is discussed below. It should be noted that CalRecycle, in an article entitled "Beyond 2000: California's Continuing Need for Landfills," states that landfills, which play a vital role in the state's integrated waste management system, will be needed for the foreseeable future for those wastes which cannot be reduced, reused, or recycled. In light of the fact that a number of counties will exhaust their disposal capacity within 15 years, the article indicates that it takes 7 to 10 years to plan, design, and permit a new landfill. However, Los Angeles County has indicated that based on recent history, it is anticipated that any new landfills sited in California could take 15 years or more to develop from conception to operation due to environmental review, community input, time needed to obtain permits, legal challenges, and potential community vote.⁶ While each landfill proposal has unique circumstances, such as size, location, and controversy, that affect the length of the planning and approval process, recent landfill projects in southern California, such as MRL and Eagle Mountain Landfill, have been in the process for more than 15 years, which suggests that there are often challenges that extend and complicate the approval process.

2.2.1 Mesquite Regional Landfill Facility (new)

MRL is located in Imperial County and is owned by Los Angeles County Sanitation Districts (LACSD). According to the Conditional Use Permit (CUP), MRL has a disposal capacity of 600 million tons, a throughput capacity of 20,000 tons per day, and a projected life-span of approximately 100 years. MRL is permitted to accept waste from Imperial, Los Angeles, Orange, Riverside,

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⁶ Solid Waste Management in Los Angeles County, presentation by the Department of Public Works, May 10, 2007.

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San Bernardino, San Diego and Ventura counties. According to LACSD, MRL is operational and ready to accept waste; however, as of January 2011, MRL has not accepted any waste. A waste-by-rail system is currently being developed, in which waste from Los Angeles County will travel from an intermodal facility near the PHL (which is expected to stop receiving refuse by November 1, 2013) to an intermodal facility at MRL. LACSD expects the intermodal rail facility between PHL and MRL to be operational by the end of 2012.

LACSD requested an amendment to the CUP that was improved by Imperial County on April 5, 2011. The amended CUP allows for up to 4,000 tons per day of waste to be trucked via transfer trailer from Los Angeles County to MRL, and an additional 1,000 tons per day is reserved for Imperial County. This allowable trucked waste is included as part of the total throughput capacity of 20,000 tons per day. The amended CUP restricts truck-hauled waste to come only from Los Angeles and Imperial Counties; accordingly, the other counties within the Waste Shed cannot truck waste to MRL unless the additional approvals from Imperial County are obtained.

Although much of the waste stream that is currently going to PHL could potentially go to MRL, according to LACSD there are no existing disposal agreements between LACSD and any waste haulers or cities/jurisdictions at this time.⁷ MRL's disposal capacity is technically available, and is therefore included in the Waste Shed's available remaining capacity value.

2.2.2 Eagle Mountain Landfill Facility (proposed)

Eagle Mountain Landfill (EML) is a proposed disposal facility located in Riverside County. The following is taken from the Los Angeles County Countywide Integrated Waste Management Plan, 2008 Annual Report:

“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 expected that the Landfill could receive up to 15,000 tpd from Los Angeles County during the planning period.”

⁷ Per phone conversation and email correspondence with Theresa Dodge, Senior Project Engineer overseeing MRL, LACSD.

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At this time, no further information is known regarding the potential time-frame of federal litigation or when the disposal facility could potentially become active and is, therefore, not factored into the analysis of this Needs Assessment. APPENDIX B provides a map created by LACSD that shows the waste-by-rail routes to MRL and the proposed EML.

2.2.3 Gregory Canyon Landfill Facility (proposed)

The proposed GCL facility would be located in northern San Diego County and would have a permitted disposal capacity of 57.5 million cubic yards (approximately 28.75 million tons). The proposed landfill would occupy approximately 308 acres on the 1,770 acre site, and accept mixed municipal waste without restrictions as to point-of-origin.⁸ It would be a Class III landfill, meaning the landfill facility will provide “adequate separation between nonhazardous solid waste and waters of the state.”⁹ This Needs Assessment is intended solely to address the question of whether a new landfill facility is warranted to help meet the Waste Shed’s disposal capacity needs.

2.2.4 San Diego County Proposition A Disposal Facility (proposed)

In June 2010, San Diego County voters approved the East Otay Mesa Recycling Collection Center and Landfill ordinance, which provides for the siting of a new recycling center and Class III landfill. The initiative indicates that the disposal facility would occupy approximately 340 acres of a 450 acre site.¹⁰ However, at this time, the facility has not been designed and a Solid Waste Facility Permit application has not been filed. However, preliminary information provided by the project proponent estimates that the facility would have a total capacity of approximately 180,000,000 tons and will be ready to accept waste

⁸ Information gathered from CalRecycle Solid Waste Information Systems (SWIS) database as well as the 2005 San Diego Siting Element.

⁹ From CalRecycle: Regulations: Title 27, Environmental Protection-- Division 2, Solid Waste Chapter 3: Criteria for All Waste Management Units, Facilities, and Disposal Sites.

¹⁰ Information gathered from San Diego County’s Five-year CIWMP/RAIWMP Review Report as well as “Initiative Measure Title and Summary: East Otay Mesa Recycling Collection Center and Landfill Ordinance.”

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by 2020.¹¹ As there is no pending application for a Solid Waste Facility Permit, the East Otay Mesa Landfill is not factored into the analysis of this Needs Assessment. APPENDIX D provides the County of San Diego Agenda Item: Certification of Petition Regarding East Otay Mesa Recycling Collection Center and Landfill Ordinance, as well as “Initiative Measure Title and Summary: East Otay Mesa Recycling Collection Center and Landfill Ordinance.”

2.3 Existing San Diego County Disposal and Transfer Facilities

2.3.1 San Diego County Siting Element

State solid waste law requires that countywide Siting Elements be updated every five years. In addition, state solid waste law and regulations require that a siting element demonstrate that there is a countywide or region-wide minimum of 15 years of combined disposal capacity through existing or planned solid waste disposal and transformation facilities or through additional strategies. (14 CCR §18755(a)). The purpose of the Siting Element is to assist local governments and private industry in planning for integrated waste management and the siting of solid waste disposal facilities. The Siting Element must demonstrate that 15 years of countywide or regional solid waste disposal capacity can be achieved based upon the requirements of state solid waste law as provided in Public Resources Code Section 41701.

The California Integrated Waste Management Board (CIWMB) approved the Countywide Integrated Waste Management Plan (CIWMP) for the County of San Diego on February 12, 1997. The Countywide Siting Element for San Diego County was last approved by the CIWMB in 2005.

The County is in the process of completing their five year review of the 2005 Siting Element. APPENDIX C provides the County's Five Year CIWMP/RAIWMP Review Report (Review Report).¹² The Review Report, which updates the data in the 2005 Siting Element, concludes that San Diego County continues to have at least 15 years of remaining disposal capacity. However, the Review Report assumes that the Sycamore Sanitary Landfill expansion will occur. Based on the analysis contained in the Review Report, a revision to the Countywide Siting Element of the

¹¹ Email correspondence, Lindsay Arbone, Asset Manager, SD Commercial, LLC, March 22, 2011.

¹² The San Diego County Review Report used in this Needs Analysis is a draft report. According to Donna Turbyfill, Deputy Director, Management Services of San Diego County, the final Review Report is expected to be completed by mid-April of 2011.

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CIWMP is not warranted at this time. The Review Report includes an update to the 2005 Siting Element that changes the status of the East Otay Mesa Recycling Collection Center and Landfill from a “Tentatively Reserved” disposal facility to a “Proposed New Disposal Facility.”

2.3.2 Disposal Facilities

As of January 2011, San Diego County has approximately 47.5 million tons of available disposal capacity dispersed among six landfills.¹³

San Onofre and Las Pulgas landfills only accept waste from Camp Pendleton and do not accept waste from the commercial or public sectors. However, for the purposes of this Needs Assessment, the disposal capacities of San Onofre and Las Pulgas landfills have been incorporated into San Diego’s available disposal capacity to account for the waste produced by Camp Pendleton.

Sycamore Sanitary Landfill is planning an expansion to overall **site** capacity as well as a three-phase expansion to increase the disposal site’s permitted **daily** throughput. The first expansion phase is expected to be completed in 2012 and will provide an increase from 3,965 tons per day to 6,800 tons per day. The second and third expansions are expected to occur by 2020 and 2026, and will increase the disposal site’s daily throughput capacity to 9,000 tons per day and 12,000 tons per day, respectively.¹⁴ According to Sycamore Sanitary Landfill staff, the disposal capacity expansion would increase Sycamore’s permitted disposal capacity from approximately 40 million tons to 74.5 million tons; however, such expansion is not currently permitted.¹⁵ Expansion to daily throughput capacity was incorporated into San Diego County’s Review Report; however, expansion of total site capacity of Sycamore Sanitary Landfill was not incorporated into San Diego County’s Review Report. Because San Diego County has not received any Solid Waste Facility Permit from Sycamore regarding the proposed expansions, this Needs Assessment has not factored in any potential Sycamore expansions.

West Miramar Sanitary Landfill has recently extended its closure date from 2017 to 2019 due to lower than expected disposal rates, which will coincide with the second phase of Sycamore Sanitary

¹³ Information gathered from the CalRecycle Solid Waste Information Systems database.

¹⁴ According to Donna Turbyfill, Deputy Director, Management Services of San Diego County, Sycamore Sanitary Landfill has not applied for any Solid Waste Facility Permit regarding the aforementioned expansions as of February 11, 2011.

¹⁵ Per phone conversation with Tom Gardener, Sycamore Sanitary Landfill on February 17, 2011.

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Landfill's expansion in 2020. Additionally, Otay Landfill has an official closure date of 2021; however, due to lower than expected disposal rates it is expected to remain active until 2027. Borrego Landfill has a throughput capacity of 50 tons per day and an estimate closure date of 2030, according to the most recent solid waste facility permit.

Table 1 shows the active landfill facilities in San Diego County, their 3-year average accepted waste tonnages for 2007 through 2009, estimated remaining disposal capacity, and estimated closure date.

Site Name	Average Tons Disposed (2007 – 2009)	Estimated Remaining Disposal Capacity as of 12/2010 (Tons)	Estimated Closure Date
Ramona Landfill ¹⁶	55,730	x	Inactive
Borrego Landfill	8,014	231,404	10/31/2030
Otay Landfill	1,274,826	16,520,263	4/30/2021
West Miramar Sanitary Landfill	1,075,218	5,010,847	1/31/2019
Sycamore Sanitary Landfill	900,891	20,090,649	12/31/2031
San Onofre Landfill	584	621,909	11/30/2257
Las Pulgas Landfill	31,957	5,020,030	3/31/2047
Total	3,347,220	47,495,101	

APPENDIX C provides San Diego County's Five-Year CIWMP/RAIWMP Review Report.

2.3.3 Transfer Station Facilities

Currently, San Diego County has no restrictions on waste flow into or out of the County. San Diego County has 27 transfer stations with a combined total daily throughput capacity of approximately 10 thousand tons of waste per day. Currently, there is adequate throughput capacity dispersed among San Diego County's transfer stations to potentially transport waste out-of-county. APPENDIX A includes all transfer/processing stations for each county within the Waste Shed.

¹⁶ Note: Ramona Landfill is no longer permitted or active, but is included in this table because it accepted waste until 2009.

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3.0 Methodology

The Methodology section of this Needs Analysis is organized into the following five major sections:

- Data Sources;
- State Mandated Requirements and Disposal Reduction Projections;
- Population Projections;
- 2010 Base-Year Tonnage and Remaining Capacity Data; and
- Capacity Projections Model.

3.1 Data Sources

Data sources for the Needs Assessment consisted of:

- the Department of Resources Recycling and Recovery (CalRecycle);
- Southern California Association of Governments (SCAG);
- San Diego Association of Governments (SANDAG);
- LACSD;
- San Diego County; and
- Surveyed jurisdictions, landfill facility owners and operators, and waste haulers.

3.1.1 CalRecycle Data

All permitted solid waste facilities in California are required to report various facility data directly to CalRecycle. The required facility data includes:

- Tonnage disposed, processed, or transferred;
- Material types accepted;
- Permitted/remaining capacity; and
- Point-of-origin for materials delivered to each facility.

All cities, counties, and state approved regional agencies report diversion, disposal, and program data to CalRecycle on a quarterly basis. The following three databases maintained by CalRecycle provided various pieces of information used in this Needs Assessment:

- Solid Waste Information System (SWIS) Database;
 - Landfill information;
- California Waste Stream Profiles;

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- Jurisdictions/cities and landfill facilities located within each county;
- Contact information of landfills, jurisdictions/cities, and counties; and
- Disposal Reporting System (DRS);
 - Disposal tonnages by point-of-origin and by destination (disposal facility).

Based on information from the SWIS database, the following items were created:

- Itemized data collection forms for each landfill facility (including owner, operator, and contact information) that were used to conduct disposal facility surveys (APPENDIX E);
- Google Earth maps showing the exact latitude and longitude of each landfill facility (APPENDIX F); and
- Detailed table of all landfill facilities (APPENDIX G).

Additional information regarding the methodology of data collection from the CalRecycle SWIS database, California Waste Stream Profiles, and DRS database is provided in APPENDIX H.

3.1.2 Jurisdiction and Landfill Facility Surveys

Each of the 6 counties, 206 cities, and 45 permitted landfill facilities within the Waste Shed were contacted by phone and by email. APPENDIX E provides data collection forms (Forms 1a and 1b) used in the surveys. The key information that was gathered from cities and landfill facilities is listed below.

For cities and counties:

- Exclusive disposal agreements (if any);
- Franchised haulers and associated contract term;
- Current diversion rate;
- “Zero-Waste” or other waste diversion goals; and
- Disposal agreements (if any), and associated landfill facility to which the agreement applies.

For landfill facilities:

- Permitted, remaining, and throughput capacity (daily or annual depending on the landfill operator’s records);
- Plans for expansion (if any) and associated time-frame;
- Closure date;
- Conversion factor of cubic yards to tons; and
- Jurisdictions/cities waste is accepted from.

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The following table provides a summary of the survey respondents:

TABLE 2 Summary of Landfills and Jurisdictions Contacted			
Landfill Facilities	46 Landfills	All Attempted	14 provided requested information
Counties	6 Counties	All Attempted	All provided requested information
Jurisdictions/ Cities	206 Cities	All Attempted	Approx. 50% provided requested information

The information received from landfill facilities was consistent with the assumption of a conversion factor of 1 ton of disposed waste per 2 cubic yards of permitted capacity (i.e., 1,000 pounds per cubic yard). This conversion factor is important because some information on the CalRecycle website and gathered from landfill surveys is provided in units of cubic yards. The projections model, however, is in units of tons; therefore, the conversion factor of 1 ton equal to 2 cubic yards was used. Each landfill facility that was contacted claimed that the factor depends on several different variables, such as moisture content, amount of time the material has been buried, and type of alternative daily cover (ADC). Accordingly, each landfill facility has a different in-place density of buried refuse that changes over time.

3.2 State Mandated Requirements and Disposal Reduction Projections

In 1989, the Integrated Waste Management Act was established in California; it requires

“...each city or county plan to include an implementation schedule which shows... diversion of 50 percent of all solid waste by January 1, 2000 through source reduction, recycling, and composting activities.”¹⁷

Diversion refers to the redirecting of waste that would otherwise enter a landfill through source reduction, recycling or composting. AB 939 is still in effect today, and while some jurisdictions are struggling to maintain the 50% diversion rate, others are setting goals at much higher rates. For example, the city of Oceanside is currently in the process of creating a “Zero Waste” plan to increase diversion from landfills to 75%. The California Global Warming Solutions Act of 2006 (AB 32) requires mandatory

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¹⁷ From www.calrecycle.ca.gov/Laws/Legislation/calhist/1985to1989.htm

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increases in commercial recycling to assist in decreasing California's greenhouse gas emissions. According to the CalRecycle 2008 Statewide Characterization data, the commercial sector accounts for 68% of waste disposed in California. AB 32 aims to significantly increase commercial recycling and decrease disposal tonnage from the commercial sector by up to three million tons annually by 2020. AB 32 also aims to minimize organic material going to landfills by 15 to 18 million tons per year by 2020.¹⁸

Current diversion rates and future diversion goals based on correspondence with cities and counties, as well as potential impacts of AB 32, were used to project potential future decreases in disposal tonnage. To analyze the Waste Shed's projected disposal capacity to the year 2045, the following three potential future disposal tonnage conditions were created and applied uniformly to the Waste Shed:

Base-Year Conditions

Disposal tonnages are projected based on current conditions and increase based on population growth alone.

20% Decrease in Tons Disposed by 2020

A 10% decrease in tons disposed by 2015 and a constant 20% decrease in tons disposed by 2020 and thereafter. Output values are based on population growth and adjusted by the percent reduction in disposal tonnage.

50% Decrease in Tons Disposed by 2030

A steady decrease in tons disposed through 2025, and a constant 50% reduction in tons disposed by 2030 and thereafter. Output values are based on population growth and adjusted by the percent reduction in disposal tonnage.

Each jurisdiction will most likely have a varied rate of change in tons disposed over the next 35 years; the projected disposal tonnage decreases uniformly apply that percentage change to the Waste Shed as a whole.

The projected decreases in tons disposed are based on the following:

- Correspondence with cities and counties
 - All jurisdictions within the Waste Shed are meeting the current state mandated 50% landfill disposal requirement. However, many jurisdictions that were contacted stated that they have no plans to further

¹⁸ From <http://www.calrecycle.ca.gov/Climate/Organics/default.htm> and <http://www.calrecycle.ca.gov/Climate/Recycling/default.htm>

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decrease landfill disposal through implementation of additional recycling programs.

- For example, the City of Covina in Los Angeles County has stated that the only future waste diversion goal it has is to meet the current 50% diversion requirement.¹⁹ Conversely, Beverly Hills in Los Angeles County reached a 73% diversion rate in 2009, and has goals to exceed that rate.²⁰
 - Several jurisdictions, such as the City of Oceanside, have adopted Zero Waste ordinances to decrease future landfill disposal. However, most of the new Zero Waste programs have yet to be implemented.
 - Franchise agreements between jurisdictions and waste haulers often stipulate specific recycling and/or diversion programs. Additional/new diversion programs mandated by jurisdictions would likely require negotiations with waste haulers and amending current franchise agreements.
- Current and proposed legislation
 - AB 939 (current) – requires diversion of at least 50% of solid waste away from landfills.
 - AB 32 (current) – requires increases in commercial recycling and decreases in landfilled organic material by 2020.
 - AB 341 (proposed) – would require diversion of at least 75% of solid waste away from landfills by 2020.
 - Diversion Infrastructure
 - Organic waste represents a significant amount of municipal disposal; however, there is currently a lack of permitted facilities to process diverted organic waste.
 - Conversion technologies, such as thermal, digestion, and hydrolysis, are processes that transform municipal solid waste into steam, heat, electricity, natural gas, and liquid fuels. Such conversion technology facilities in the U.S. are now emerging. Los Angeles County is actively pursuing

¹⁹ Information gathered from the City of Covina's Department of Public Works.

²⁰ Information gathered from the City of Beverly Hills' Department of Public Works.

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the implementation of conversion technologies and reported 0.5 million tons of municipal solid waste sent to a waste-to-energy facility in 2006.²¹

- Extended Producer Responsibility (EPR) aims to create recycling systems that are designed, financed, and managed by the producers themselves. For example, battery and mercury thermostat drop-off stations have been created to divert hazardous materials away from landfills. Estimated disposal reduction due to EPR is between 2% and 5%.

3.3 Population Projections

The Southern California Association of Governments (SCAG) is comprised of six counties: Los Angeles, Orange, Riverside, Imperial, San Bernardino, and Ventura. SCAG provides population growth estimates to the year 2035; the methodology in calculating these estimates is based on fertility, mortality and migration for each of four ethnic groups within three population classes. The estimated population values are given in five-year intervals, and are cross-referenced with migration statistics based on the availability of jobs in the region.²²

The San Diego Association of Governments (SANDAG) is comprised of 18 cities within the county of San Diego. It provides population growth forecasts to the year 2050 in ten-year intervals based on economic and demographic projections, existing land-use plans and policies, and potential land-use plan changes.²³

To compile the five-year population projection intervals to the year 2045, the average difference in population between years in which data were available from SCAG or SANDAG was used. For example, the 2010 population of Agoura Hills is 23,347, and is projected to increase to 23,502 by the year 2035. Therefore, the difference in population between 2010 and 2035 is 155, and the average difference (based on five five-year intervals) is 155 divided by 5. This number, which equals 31, is added to the 2035 population value to obtain the 2040 population of Agoura Hills. This process was completed for every unknown population value between or after years of known population estimates. Population data for each city and county is provided in APPENDIX I.

²¹ Solid Waste Management in Los Angeles County, presentation by the Department of Public Works, May 10, 2007.

²² From "Forecast Methodology" of the SCAG integrated growth forecasts. <http://www.scag.ca.gov/forecast/methods.htm>.

²³ From "Important Information About This Forecast" of the SANDAG 2050 Growth Forecast. <http://profilewarehouse.sandag.org/profiles/fcst/city1fcst.pdf>.

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The California Department of Finance provides population projections for every 10-year interval to the year 2050. The projections, however, only estimate population growth by county, not by city. The U.S. Census Bureau's 2010 Census data will not be released until approximately September of 2011.²⁴ Accordingly, the SCAG and SANDAG population projections were used.

3.4 2010 Base-year Tonnage and Remaining Capacity Data

Complete calendar year 2010 tonnage data will not be available on the CalRecycle website until after the first quarter of 2011; for that reason, the three-year average tonnage values for each jurisdiction within the Waste Shed were calculated. Using tonnage disposed by point-of-origin from the years 2007 through 2009, the average tonnage was calculated and that value was used as the 2010 base-year for the respective jurisdiction. To this base-year value, potential future changes in disposal rates were applied to project future annual tonnages using the projections model. The same methodology of finding a 2010 base-year was also completed for tonnage disposed by point-of-destination, which was used in calculating remaining capacity current as of 2010.

The SWIS database provides the remaining capacity of each landfill along with the date that the remaining capacity was appraised; these values were cross-checked with contacted landfill facilities. Most of the remaining capacity dates were evaluated within the last three years; however, landfill facilities have been accepting waste since that time. To assign all landfill facilities a remaining capacity current as of 2010, the 2010 base-year tonnage was multiplied by the number of years since the remaining capacity was evaluated and subtracted from the remaining capacity value as provided by CalRecycle. For example, if a landfill had a remaining capacity date current as of 2007, the 2010 base-year tonnage of that landfill facility would be subtracted from that landfill facility's remaining capacity three times to achieve an estimated remaining capacity as of 2010.

3.5 Capacity Projections Model

The projections model was created in Microsoft Excel 2010, and used to project disposal tonnage values for each jurisdiction to the year 2045. The model provides output data in five-year intervals based on the following inputs:

- Population estimates to the year 2045;
- Tons disposed by jurisdiction for the 2010 base-year;

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²⁴ Per the U.S. Census Bureau website.

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- Landfill facility remaining capacity as of 2010; and
- Potential future decreases in tons disposed.

Based on these inputs, the model projects future disposal tonnages for each jurisdiction based on population growth alone, which will be referred to as base-year conditions. The model also projects future disposal tonnages for each jurisdiction based on potential decreases in tons disposed.

The output values of the model are contingent upon the selected disposal tonnage conditions, and consist of the following output categories:

- Disposal tonnages for each jurisdiction;
- Remaining capacity;
- Needed remaining capacity;
- Capacity gaps/surplus; and
- Years of remaining capacity by landfill facility, county, and the Waste Shed.

Each of the above output categories are provided for every 5-year interval between 2010 and 2045.

To project how the proposed GCL would affect both the Waste Shed and San Diego County specifically, the permitted capacity of the proposed disposal facility was added to the county in which it will function, and one of the three disposal tonnage conditions was applied. For modeling purposes, GCL is projected to begin accepting waste in 2015.²⁵ As a result, all of the aforementioned output values are provided with GCL's capacity incorporated.

4.0 Analysis

As of December 2010, the Waste Shed had approximately 1.02 billion tons of available disposal capacity. This capacity is dispersed among 45 active landfills, with closure dates ranging from 2012 to 2257. In 2009, the landfills within the Waste Shed accepted a total of 17.8 million tons. The 2009 total of tons disposed by jurisdictions within the Waste Shed was 18.2 million tons. The difference in the total tons accepted by landfill facilities (point-of-destination) and the total tons disposed of by jurisdictions (point-of-origin) is because some jurisdictions export waste to landfill facilities beyond the Waste Shed. For example, Imperial City in Imperial County exports some waste to Copper Mountain in Arizona. Moreover, landfills within the Waste Shed also import waste from beyond the Waste Shed. The difference in tonnage by point-of-origin and tonnage by point-of-destination is 1.8%, 2.4%,

²⁵ San Diego County's Review Report also assumes GCL will open in 2015, although the actual year is unclear.

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and 2.4% when comparing 2007, 2008, and 2009 data, respectively. For the purposes of this Needs Assessment, it has been assumed that each jurisdiction's waste will be disposed-of within the Waste Shed.

The analysis section is organized into two main subsections:

- Disposal tonnage projections (based on existing capacity); and
- Potential impact of GCL.

Each subsection provides analysis of the regional Waste Shed as well as San Diego County specifically. In addition, both the Waste Shed and San Diego County are analyzed under base-year conditions, with a 20% decrease in tons disposed by 2020, and with a 50% decrease in tons disposed by 2030. APPENDIX J provides projected disposal tonnages for each jurisdiction within the Waste Shed based on base-year conditions and potential future decreases in tons disposed.

4.1 Disposal Tonnage Projections (Based on Existing Capacity)

LACSD has stated that MRL will receive waste via waste-by-rail from an intermodal facility at the soon-closing PHL. There are no current disposal agreements between LACSD and any waste haulers or jurisdictions; accordingly, it is difficult to speculate as to how much tonnage the landfill facility will receive within a given time-frame. LACSD expects that waste-by-rail will begin transporting waste from an intermodal facility at PHL no later than the closure date of PHL (November 1, 2013). Because the disposal capacity introduced by MRL is physically in Imperial County, it is incorporated into Imperial County's remaining disposal capacity. Imperial County would no longer have immediate disposal capacity needs if MRL were intended solely for that County; however, it is a regional landfill, and is permitted to accept waste from seven counties in southern California. As stated above, there are no existing disposal agreements between LACSD and any waste haulers or jurisdictions; therefore, tonnage values from Los Angeles County or any other county could not be assumed at this time. LACSD anticipates sending waste-by-rail to MRL in 2013; however, due to the lack of current disposal agreements, MRL may not reach the full 20,000 tons per day of permitted daily throughput until approximately 2015. Therefore, for the purposes of this Needs Assessment, MRL's available disposal capacity has been incorporated into the Waste Shed's current available capacity, and will begin accepting waste at 20,000 tons per day in 2015.

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4.1.1 Base-Year Conditions

The Base-year conditions represent the status-quo; it assumes that no decrease in disposal tonnage occurs, and that tons disposed grow linearly with population. The 2010 base-year disposal by point-of-origin is 20,678,443 tons; if this disposal tonnage were to stay consistent and grow linearly with population, and assuming no new landfill facilities become active, the Waste Shed’s 1.02 billion tons of available disposal capacity will be depleted by the year 2052.

Table 3, below, shows a summary of projected disposal tonnage, available landfill capacity, and years of available remaining capacity within the Waste Shed based on base-year conditions.

TABLE 3				
Projected Disposal Tonnage, Landfill Capacity, and Years of Remaining Capacity for Waste Shed (Base-Year Conditions)				
Total Projected Disposal Tonnage within Waste Shed				
Year	2010	2015	2020	2025
Total Tons	20,678,443	21,734,846	22,759,803	23,730,562
Year	2030	2035	2040	2045
Total Tons	24,642,763	25,486,616	26,434,094	27,345,053
Total Available Landfill Capacity within Waste Shed				
Year	2010	2015	2020	2025
Total Capacity	1,018,862,450	912,301,026	800,551,923	683,840,631
Year	2030	2035	2040	2045
Total Capacity	562,451,218	436,705,842	306,430,328	171,526,981
Years of Remaining Disposal Capacity within Waste Shed				
Year	2010	2015	2020	2025
Years Remaining	20.3	42.0	35.2	28.8
Year	2030	2035	2040	2045
Years Remaining	22.8	17.1	11.6	6.3

Assuming no decreases in disposal tonnage occur, available landfill capacity will be exhausted by the year 2052. The above summary table shows the outcome when considering the Waste Shed as a whole; the “total” values assume that disposal capacities are pooled and that any jurisdiction’s waste can travel to any landfill facility. Figures 1 and 2, below, show the percentage of tons disposed and remaining disposal capacity, respectively, for each county within the Waste Shed for 2010.

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Figure 1
2010 Percentage of Tons Disposed

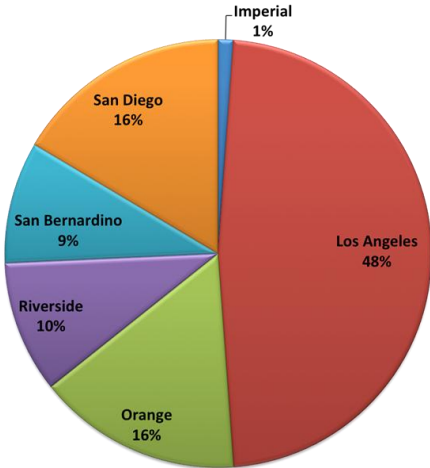
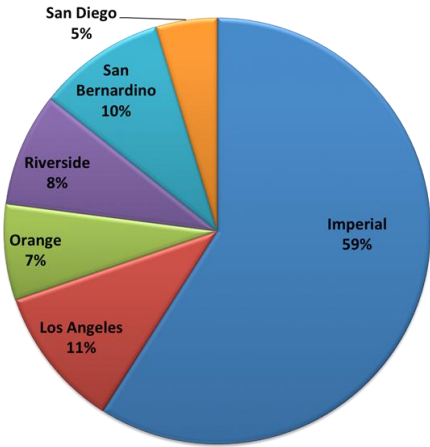


Figure 2
2010 Percentage of Available Disposal Capacity



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As seen in the above figures, Imperial County disposed of approximately 1% of the Waste Shed's total disposed waste, while Los Angeles County disposed of approximately 48%. Conversely, as of 2010 Imperial County has approximately 59% of the Waste Shed's total available disposal capacity, while Los Angeles County has approximately 11%. Table 4, below, shows available landfill capacity for each county within the Waste Shed.

TABLE 4 Total Available Landfill Capacity by County (Base-Year Conditions)				
County	2010	2015	2020	2025
Imperial	601,367,191	600,024,411	598,474,729	596,781,046
Los Angeles	109,378,135	59,159,657	7,398,664	(45,887,675)
Orange	74,226,736	57,822,953	40,921,169	23,712,722
Riverside	87,933,699	76,947,580	64,725,963	51,241,651
San Bernardino	98,461,588	88,392,893	77,451,080	65,655,423
San Diego	47,495,101	29,953,533	11,580,317	(7,662,535)
Total:	1,018,862,450	912,301,026	800,551,923	683,840,631
County	2030	2035	2040	2045
Imperial	594,985,110	593,126,194	591,165,107	589,065,503
Los Angeles	(100,653,009)	(156,839,616)	(214,478,602)	(273,607,079)
Orange	6,277,469	(11,321,876)	(29,170,961)	(47,348,271)
Riverside	36,606,258	20,876,602	4,008,171	(14,030,698)
San Bernardino	53,035,738	39,625,574	25,403,159	10,344,848
San Diego	(27,800,348)	(48,761,037)	(70,496,546)	(92,897,322)
Total	562,451,218	436,705,842	306,430,328	171,526,981

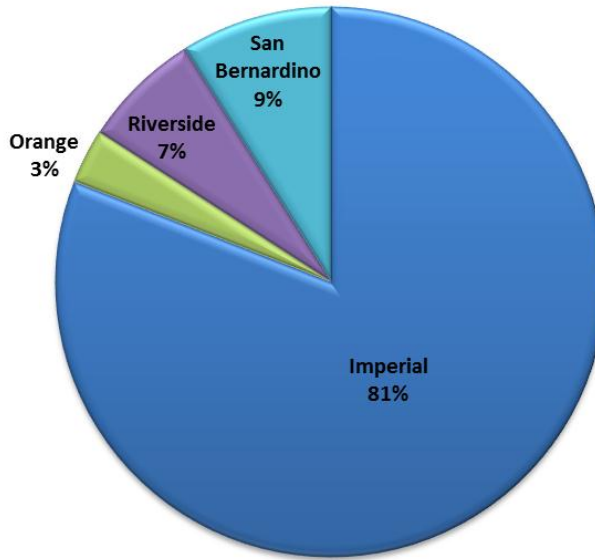
As seen above, Imperial and San Bernardino are the only counties that have sufficient disposal capacity to last until 2045; each of the four other counties will be exhausted of disposal capacity within 35 years. This, however, is assuming that only Imperial County disposes of waste at MRL. Currently, Imperial County only has up to 1,000 tons per day of reserved throughput at MRL. LACSD expects that MRL will primarily serve Los Angeles County's disposal capacity needs. Because there are no existing disposal agreements, it is unknown how much waste each county could dispose of at MRL; therefore, the disposal capacity introduced by MRL is evaluated with no restrictions as to point of origin. Currently, San Diego County has approximately 47.5 million tons of available disposal capacity; under base-year conditions, this

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capacity would be depleted by 2024. Figure 3, below, shows the percentage of projected remaining disposal capacity for each county within the Waste Shed in the year 2025. Please note that Los Angeles and San Diego Counties are projected to be out of disposal capacity by 2021 and 2024, respectively; therefore, Los Angeles and San Diego Counties are not included in Figure 3.

Figure 3
2025 Percentage of Remaining Disposal Capacity



Los Angeles County - **Out of capacity in 2021**

San Diego County - **Out of capacity in 2024**

As seen above, San Diego County is projected to be out of disposal capacity by 2024. Although Los Angeles County is projected to be out of disposal capacity by 2021, the substantial remaining capacity shown for Imperial County is associated with MRL, which is owned and operated by LACSD and expected to largely serve Los Angeles County.

Table 5, below, shows a summary of the number of remaining years of disposal capacity for the Waste Shed as well as each county.

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**TABLE 5
Years of Remaining Disposal Capacity
(Base-Year Conditions)**

County	Year Capacity Depleted	Years Remaining
Imperial	2045+	1,401 ²⁶
Los Angeles	2021	10
Orange	2032	21
Riverside	2042	31
San Bernardino	2045+	34+
San Diego	2024	13
Waste Shed	2052	41

As seen above, the Waste Shed will be exhausted of disposal capacity by 2052, for a total of 41 years of remaining disposal capacity. San Diego County will be exhausted of disposal capacity by 2024, for a total of 13 years of remaining disposal capacity.

Base-Year Key Findings:

- The Waste Shed's Landfill capacity will be exhausted by the year 2052;
- As of 2011, the Waste Shed has 41 years of remaining disposal capacity;
- San Diego County's available disposal capacity will be exhausted by the year 2024; and
- As of 2011, San Diego County has 13 years of remaining disposal capacity.

4.1.2 Decreases in Tons Disposed

Assuming a 10% decrease in tons disposed by 2015 and a constant 20% decrease in tons disposed by 2020 and thereafter, the Waste Shed would be depleted of disposal capacity by 2060. The decrease in tons disposed would increase the Waste Shed's remaining capacity time-frame by 8.5 years when compared to base-year conditions. Table 6, below, shows a summary of years

²⁶ Due to the physical location of MRL in Imperial County, MRL's available disposal capacity must be incorporated into the remaining disposal capacity of Imperial County. This number does not reflect the actual years of remaining disposal capacity for Imperial County. This value assumes that Imperial County alone uses MRL. Theresa Dodge, Senior Project Engineer overseeing MRL, LACSD, has stated that MRL will primarily serve Los Angeles County.

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of remaining disposal capacity assuming a 20% decrease in tons disposed by 2020.

TABLE 6
Years of Remaining Disposal Capacity
(20% Decrease in Tons Disposed by 2020)

County	Year Capacity Depleted	Years Remaining
San Diego	2026	15
Waste Shed	2060	49

As seen above, the Waste Shed would be exhausted of disposal capacity by 2060, for a total of 49 years of remaining capacity. San Diego County would be depleted of disposal capacity by 2026, for a total of 15 years of remaining capacity. When compared to base-year conditions, San Diego County would gain an additional 2 years of disposal capacity.

Assuming a steady decrease in tons disposed through 2025, and a constant 50% reduction in tons disposed by 2030 and thereafter, the Waste Shed would be depleted of disposal capacity by 2081. This decrease in tons disposed would increase the Waste Shed's remaining capacity time-frame by 29.2 years when compared to base-year conditions. Table 7, below, shows a summary of years of remaining disposal capacity assuming a 50% decrease in tons disposed by 2030:

TABLE 7
Years of Remaining Disposal Capacity
(50% Decrease in Tons Disposed by 2030)

County	Year Capacity Depleted	Years Remaining
San Diego	2027	16
Waste Shed	2081	70

As seen above, the Waste Shed would be exhausted of disposal capacity by 2081, for a total of 70 years of remaining capacity. San Diego County would be depleted of disposal capacity by 2027, for a total of 16 years of remaining capacity. When compared to base-year conditions, San Diego County would gain an additional 3 years of disposal capacity.

Decreases in Tons Disposed Key Findings:

- Assuming a 20% decrease in tons disposed by 2020, the Waste Shed would be depleted of disposal capacity in 2060. As of 2011, the Waste Shed would have 49 years of remaining disposal capacity;

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- Assuming a 50% decrease in tons disposed by 2030, the Waste Shed would be depleted of disposal capacity in 2081. As of 2011, the Waste Shed would have 70 years of remaining disposal capacity;
- Assuming a 20% decrease in tons disposed by 2020, San Diego County would be depleted in of disposal capacity in 2026. As of 2011, San Diego County would have 15 years of remaining disposal capacity; and
- Assuming a 50% decrease in tons disposed by 2030, San Diego County would be depleted in of disposal capacity in 2027. As of 2011, San Diego County would have 16 years of remaining disposal capacity.

4.2 Potential Impact of GCL

This section is based on the potential of GCL becoming an active landfill in 2015. If approved, GCL will have a permitted site capacity of 57,500,000 cubic yards, which, according to the conversion factor of 1 ton equal to 2 cubic yards, equals 28,750,000 tons. For the purposes of this analysis, GCL’s permitted disposal capacity has been incorporated into San Diego’s remaining disposal capacity, as well as the Waste Shed’s remaining disposal capacity.

4.2.1 Base-Year Conditions with GCL

The following table shows the number of remaining years of available disposal capacity under base-year conditions and with the addition of GCL.

TABLE 8 Years of Remaining Disposal Capacity (Base-Year with GCL) ²⁷		
County	Year Capacity Depleted	Years Remaining
San Diego w/GCL	2031	20
Waste Shed w/GCL	2053	42

The approval of GCL would extend San Diego’s time-frame of available disposal capacity from 2024 to 2031, approximately 7.1

²⁷ For each county, the “Capacity Depleted In” and “Years of Remaining Capacity” values assume that each county disposes of waste at one of the landfills located within that county. For the Waste Shed, the “Capacity Depleted In” and “Years of Remaining Capacity” values assume that disposal capacities are pooled, and that each county can dispose of waste anywhere in the Waste Shed. Therefore, San Diego County w/GCL assumes that only San Diego County uses GCL, and Waste Shed w/GCL assumes that all six counties use GCL.

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years when compared to base-year conditions and assuming only San Diego County uses the landfill. If Gregory Canyon were used by all six counties, it would extend the Waste Shed's available disposal capacity by 1 year.

Base-Year with GCL Key Findings:

- With GCL, the Waste Shed will be depleted of remaining disposal capacity in 2053;
- As of 2011, the Waste Shed has 42 years of remaining disposal capacity assuming all counties utilize GCL;
- San Diego County's available disposal capacity will be exhausted by the year 2031 assuming only San Diego County uses the landfill; and
- As of 2011, San Diego County has 20 years of remaining disposal capacity assuming only San Diego County uses the landfill.

4.2.2 Decreases in Tons Disposed with GCL

Table 9 on the following page shows the number of remaining years of available disposal capacity assuming a 20% decrease in tons disposed by 2020 and with the addition of GCL.

TABLE 9 Years of Remaining Disposal Capacity (20% Decrease in Tons Disposed by 2020 with GCL)		
County	Year Capacity Depleted	Years Remaining
San Diego w/GCL	2034	23
Waste Shed w/GCL	2062	51

Assuming only San Diego County uses GCL, the County's available disposal capacity would be extended until 2034, which is an 8.8 year increase from the previous 20% reduction in tons disposed value. GCL would extend the life-time of available capacity in the Waste Shed to 2062, which is a 1.3 year increase from the previous 20% reduction in tons disposed value.

The following table shows the number of remaining years of available disposal capacity assuming a 50% decrease in tons disposed by 2030 and with the addition of GCL.

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TABLE 10
Years of Remaining Disposal Capacity (50% Decrease in Tons Disposed by 2030 with GCL)

County	Year Capacity Depleted	Years Remaining
San Diego w/GCL	2040	29
Waste Shed w/GCL	2083	72

Assuming only San Diego County uses GCL, the County's available disposal capacity would be extended until 2040, which is a 13.6 year increase from the previous 50% reduction in tons disposed value. GCL would extend the life-time of available capacity in the Waste Shed to 2083, which is a 2.1 year increase from the previous 50% reduction in tons disposed value.

Decreases in Tons Disposed with GCL Key Findings:

- Assuming a 20% decrease in tons disposed by 2020, the Waste Shed would be depleted of disposal capacity in 2062. As of 2011, the Waste Shed would have 51 years of remaining disposal capacity;
- Assuming a 50% decrease in tons disposed by 2030, the Waste Shed would be depleted of disposal capacity in 2083. As of 2011, the Waste Shed would have 72 years of remaining disposal capacity;
- Assuming a 20% decrease in tons disposed by 2020, San Diego County would be depleted of disposal capacity in 2034. As of 2011, San Diego County would have 23 years of remaining disposal capacity; and
- Assuming a 50% decrease in tons disposed by 2030, San Diego County would be depleted of disposal capacity in 2040. As of 2011, San Diego County would have 29 years of remaining disposal capacity.

5.0 Study Findings

The following are the major findings of this Needs Assessment:

- Under current conditions, the Waste Shed has adequate **theoretical** disposal capacity through 2052 as calculated on a **total regional site capacity basis**. However:
 - Of the total available disposal capacity of 1.02 billion tons for the Waste Shed, MRL accounts for approximately 60% of the total available disposal capacity.
 - Because of limitations placed on MRL in terms of daily capacity and waste transportation to the site,

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MRL currently cannot realistically meet the future disposal capacity needs of the Waste Shed. In addition, MRL is primarily intended to serve Los Angeles County.²⁸

- If MRL only accepts waste originating from Los Angeles County and Imperial County, this results in disposal capacity shortfalls for San Diego County by 2024, Orange County by 2032, and Riverside County by 2042. San Bernardino County has adequate capacity beyond 2045.
- Under current conditions, San Diego County is projected to be out of landfill capacity by 2024.
 - For San Diego County, there are no practical methods for transporting waste to MRL, as described in Section 6.0.
- Decreasing disposal through increased diversion programs does extend current disposal capacity as calculated on a total site capacity basis (assumes no new landfill facility):
 - Projecting a 20% decrease in tons disposed by 2020, the Waste Shed capacity would be extended until 2060. For San Diego County, a 20% reduction in disposal tons would extend disposal capacity until 2026.
 - Projecting a 50% decrease in tons disposed by 2030, the Waste Shed capacity would be extended until in 2081. For San Diego County, a 50% reduction in disposal tons would extend disposal capacity until 2027.
 - San Diego County would need to decrease current landfill disposal by 80%+ in order to have sufficient disposal capacity through 2045 and to avoid needing additional disposal capacity.
- GCL has a minimal effect on the Waste Shed's available capacity and would only increase disposal capacity by approximately 1 to 2.1 years, depending on potential future diversion programs.
- GCL could increase San Diego County's years of remaining disposal capacity by 7.1 to 13.6 years, depending on future diversion programs, and if GCL were restricted to accept in-county waste only.

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²⁸ Per phone conversation and email correspondence with Theresa Dodge, Senior Project Engineer overseeing MRL, LACSD.

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Tables 11 and 12, below, summarize the key findings from the disposal tonnage projections and the potential impact of GCL for the Waste Shed and San Diego County, respectively.

**TABLE 11
Regional Waste Shed
Year of Capacity Depletion**

Projection Conditions	Year Capacity Depleted	
	No New Landfill	With Gregory Canyon
Base Conditions	2052	2053
20% disposal decrease by 2020	2060	2062
50% disposal decrease by 2030	2081	2083

**TABLE 12
San Diego County
Year of Capacity Depletion**

Projection Conditions	Year Capacity Depleted	
	No New Landfill	With Gregory Canyon
Base Conditions	2024	2031
20% disposal decrease by 2020	2026	2034
50% disposal decrease by 2030	2027	2040

6.0 Study Conclusions

Under current conditions, the Waste Shed has adequate disposal capacity through 2045. The proposed GCL has no restrictions as to point-of-origin of waste; however, waste flow to the proposed GCL disposal site from many areas within the Waste Shed would be limited by current disposal agreements and economic practicality.²⁹ The counties of Orange and San Bernardino have disposal agreements that direct the majority of in-County waste to be disposed of in-county. Riverside County has adequate disposal capacity to last beyond 2040; however, due to the close proximity of the proposed GCL to the southern portion of Riverside County, it may be economically practical for cities such as Murrieta and Temecula to dispose of waste at GCL. While Los Angeles County could theoretically dispose of waste at GCL, it may not be as economically viable as sending waste-by-rail to MRL, which is

²⁹ Economic practicality refers to costs associated with waste flow, such as transportation costs and tipping fees.

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primarily intended to serve Los Angeles County's disposal needs.³⁰ Additionally, Imperial County has adequate disposal capacity within the County because of a relatively low demand and the reserved 1,000 tons per day at MRL. Therefore, due to the above reasons and the likely economic advantages of disposing of waste locally, the majority of waste flow received by GCL would most likely come from San Diego County.

Under current conditions, and assuming current rates of diversion, San Diego County is estimated to be out of disposal capacity in 2024. West Miramar Sanitary Landfill is projected to close in 2019. Sycamore Sanitary Landfill has stated that they are in the permitting process to undergo an expansion to overall disposal capacity, as well as daily throughput.³¹ Due to the close proximity of West Miramar to Sycamore, much of the waste currently going to West Miramar will likely go to Sycamore once West Miramar closes. The potential expansion to Sycamore's disposal capacity would certainly benefit San Diego County's disposal needs; however, additional disposal capacity will still be needed considering the closure of Miramar Landfill and the uncertain time-frame and planned disposal capacity of the East Otay Mesa Recycling Collection Center and Landfill (Proposition A Landfill). It is important to note that while new landfills, other than GCL, could be proposed in San Diego County, the complexity and controversial nature of landfill development is such that the planning and permitting process often takes many years.³² Currently, no landfills in northern San Diego County accept mixed municipal waste; therefore, the majority of waste received by GCL would most likely come from San Diego County, specifically northern San Diego County, and possibly south Riverside County.

³⁰ Per phone conversation and email correspondence with Theresa Dodge, Senior Project Engineer overseeing MRL, LACSD.

³¹ Tom Gardener of Sycamore Sanitary Landfill stated that Sycamore is in the permitting process to undergo an expansion to overall permitted disposal site capacity, as well as a three-phase expansion to permitted daily throughput. However, Donna Turbyfill, Deputy Director, Management Services of San Diego County, has stated that San Diego County has not received a Solid Waste Facility Permit for the proposed Sycamore expansions as of February 11, 2011. The expansion to overall disposal site capacity was not factored into this Needs Assessment, nor was it factored into San Diego County's Five-Year Review Report.

³² CalRecycle indicates that it takes 7 to 10 years to plan, design, and permit a new landfill. However, as indicated previously, recent landfill projects in southern California, such as MRL and Eagle Mountain Landfill have been in the process for more than 15 years. GCL, with the passage of Proposition C in 1994, has been in the process for over 15 years.

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If the proposed GCL were not developed, San Diego County waste could potentially be exported out-of-County; however, there are contractual and possible economic limitations to be considered.

- Orange County does not anticipate extending agreements to bring in out-of-County waste past 2016;
- San Bernardino County is limited to between 20,000 and 100,000 tons per year of out-of-county waste;
- Riverside County could potentially accept waste from San Diego County, although an out-of-County waste agreement would be required;³³
- Los Angeles County does not have restrictions on waste importation; however, it may not be economically viable for San Diego County to transport waste to Los Angeles County. Additionally, Los Angeles County does not have adequate disposal capacity to last beyond 2030 under current conditions. Los Angeles County is in the process of exporting waste out-of-County, as seen with MRL and their interest in Eagle Mountain Landfill; competition due to the limited amount of disposal capacity in-county will likely drive tipping fees up. Based on this assumption, it would not be economically desirable for San Diego County haulers to incur the increased cost in tipping fees as well as transportation costs; and
- Imperial County facilities, other than MRL, have a small daily throughput capacity and would not sustain a significant amount of waste from San Diego County. MRL cannot accept truck-hauled waste from San Diego County and there is no existing intermodal rail facility to transport waste from San Diego County to MRL. Furthermore, San Diego County has no plans to construct an intermodal rail facility.³⁴

Based on the analysis in this Needs Assessment, the proposed GCL would have a small effect on the Waste Shed's disposal capacity needs and is therefore not needed on a regional basis. However, given San Diego County's current remaining disposal capacity and the limitations affecting other counties in accepting out-of-county waste, GCL would assist San Diego County in meeting their disposal capacity needs.

³³ Per email correspondence with Bob Anderson, Program Administrator, Riverside County Waste Management Department.

³⁴ Per phone and email correspondence with Donna Turbyfill, Deputy Director, Management Services of San Diego County.

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Gregory Canyon Landfill Needs Assessment

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Appendix A

Transfer/Processing Stations in Waste Shed

APPENDIX A

County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Imperial County					
Imperial	Palo Verde Transfer Station	Mixed Municipal Waste	60	Cu Yards/day	County of Imperial, Public Works
Imperial	Valley Environmental Services-Recycling	Mixed Municipal Waste	200	Tons/day	Imperial Landfill, Inc.
Imperial	Ocotillo Solid Waste Transfer Station	Construction/demolition,Mixed Municipal Waste	15	Tons/day	County of Imperial, Public Works
Imperial	Holtville Transfer Facility	Mixed Municipal Waste	20	Tons/day	County of Imperial, Public Works
Imperial	Allied Imperial Small Vol.CDI Proc Op	Construction/demolition,Inert	25	Tons/day	Imperial Landfill, Inc.
Imperial	CR&R Material Recovery & Transfer Op.	Construction/demolition,Green Materials,Metals,Mixed Municipal Waste	15	Tons/day	CR and R Incorporated
Imperial	Harris Road LLC MRF and Transfer Station	Construction/demolition,Green Materials,Inert,Mixed Municipal Waste,Tires,Wood waste	1,500	Cu Yards/day	Harris Road LLC

APPENDIX A

County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Los Angeles County					
Los Angeles	American Waste Transfer Station	Agricultural,Const./Dem.,Green Materials,Industrial,Inert,Manure,Metals,MMW	2,225	Tons/day	Republic Services Of California Ii, LLC
Los Angeles	City Of San Gabriel Disposal Site	Green Materials,MMW	50	Cu Yards/day	City Of San Gabriel
Los Angeles	South Gate Transfer Station	Const./Dem.,Industrial,Inert,MMW	1,000	Tons/day	County Of Los Angeles Sanitation Dist
Los Angeles	City Of Santa Monica Transfer Station	Industrial,MMW	400	Tons/day	City Of Santa Monica
Los Angeles	Azusa Land Reclamation Co. Landfill	Contaminated soil	6,500	Tons/day	
Los Angeles	Compton Recycling & Transfer Station	Const./Dem.,Green Materials,Industrial,MMW	1,500	Tons/day	B.F.I. Waste Systems Of N.A. Inc.
Los Angeles	Pebble Beach (Avalon) Disposal Site	MMW	49	Tons/day	City Of Avalon
Los Angeles	City Of Inglewood Transfer Station	Green Materials,MMW	100	Tons/day	City Of Inglewood
Los Angeles	Altadena Shop	Const./Dem.,Green Materials,MMW	20	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	La Co Dept Public Wrks Roads Dept # 553	Green Materials,Inert,MMW	8	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	La Co Public Wrks,roads Dept, #523a T.S.			Tons/day	
Los Angeles	La Co Dept Public Wrks Roads Dept #556	Green Materials,Inert,MMW	10	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	Road Division 514	Const./Dem.,Green Materials,MMW	25	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Road Division #233 Transfer Station	Const./Dem.,Other designated	50	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Road Maintenance Division #232 S.V.T.S.	Const./Dem.,Green Materials,MMW	10	Tons/day	County Of Los Angeles, Dpt Of Pub. Works
Los Angeles	LA County Dept Public Wrks #436TS	Const./Dem.,Inert,Other designated	200	Cu Yards/month	County of Los Angeles Dept. Public Works
Los Angeles	Road Division 232A - Lomita	MMW	10	Tons/day	Los Angeles County, Dpt. Of Public Works
Los Angeles	L.A County Dept. Public Works # 339 LVTS	Const./Dem.,Inert,Other designated	200	Cu Yards/month	County of Los Angeles Dept. Public Works
Los Angeles	LA County Rd. Maintenance Div. #241 LVTO	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	35	Cu Yards/day	County of Los Angeles Dept. Public Works
Los Angeles	La Co Public Wrks, Roads Dept, #557	Green Materials,Inert,MMW	8	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	La Co Dept Public Wrks Roads Dept #551	Green Materials,Inert,MMW	8	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	La Co Dept Public Wrks Roads Dept #552TS	Green Materials,MMW	8	Cu Yards/day	Los Angeles Co Dept. of Public Works
Los Angeles	La Co Dept Public Wrks Roads Dept #555TS	Green Materials,Inert,MMW	10	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	La Co Dept Public Wrks Roads Dept #558TS	Green Materials,Inert,MMW	10	Cu Yards/day	L.A. County Dept. Of Public Works
Los Angeles	Redondo Beach Transfer Station	Const./Dem.,Green Materials,MMW	46	Cu Yards/day	City Of Redondo Beach
Los Angeles	Road Division 519	Const./Dem.,Green Materials,MMW	10	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Road Division 417	Const./Dem.,Green Materials,MMW	10	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	County of Los Angeles, R.M. Div. 446	Const./Dem.,Green Materials,MMW	4	Tons/day	Los Angeles County, Dpt. Of Public Works
Los Angeles	RD 518	Const./Dem.,Inert	10	Cu Yards/day	County of Los Angeles PW
Los Angeles	LA County Rd. Main. Div. #142 LVTO	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	20	Cu Yards/day	County of Los Angeles Dept. Public Works
Los Angeles	Road Maintenance Division #4, S.V.T.S.	Const./Dem.,Green Materials,Inert,MMW	10	Cu Yards/day	County Of Los Angeles, Dpt Of Pub. Works
Los Angeles	Road Division 416	Const./Dem.,MMW	10	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Co of Los Angeles, R.M. Div. #448	Const./Dem.,Green Materials,MMW	10	Tons/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Road Maintenance - District 1	Const./Dem.,MMW	10	Cu Yards/day	Los Angeles Co Public Works Road M. Div
Los Angeles	Culver City Transfer/Recycling Station	Const./Dem.,Green Materials,Industrial,Inert,MMW,Tires	500	Tons/day	City Of Culver City - San. Div. Of P.W.D
Los Angeles	Commerce Refuse-To-Energy Facility	Industrial,MMW	1,000	Tons/day	Commerce Refuse-TO-Energy Authority
Los Angeles	Downey Area Recycling & Transfer	Const./Dem.,Green Materials,Industrial,MMW	5,000	Tons/day	LA County San. Dist. & Downey Area R.& T
Los Angeles	Bel Air Street Maintenance Dist Yard	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Cahuenga Pass St Maintenance Dist Yard	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Alabama Street MDY (Tree Yard)	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City of Los Angeles Bureau of St. Maint.
Los Angeles	Central Street MDY	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Eagle Rock Street MDY	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Hollywood Street MDY	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Lindley Avenue Transfer Station	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	North Hollywood - Studio City Street MDY	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Palisades Street MDY	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	San Fernando Street MDY	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Southeast Street MDY	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Sunland Street MDY	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Van Nuys Street MDY	Const./Dem.,MMW,Tires	500	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Wilshire Street MDY	MMW	68	Tons/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	East Street Maintenance District Yard	Const./Dem.,MMW,Tires	700	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Granada Hills Street MDY	Const./Dem.,MMW,Tires	1,000	Cu Yards/day	City Of Los Angeles Bur Of Street Maint

APPENDIX A

County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Los Angeles County					
Los Angeles	Southwest Street MDY	Const./Dem.,MMW,Tires	500	Cu Yards/day	City Of Los Angeles Bur Of Street Maint
Los Angeles	Silverlake Maintenance Station - LVTop	MMW	100	Cu Yards/day	Calif Dept Of Transpo-Sacramento
Los Angeles	Salt Lake Transfer Station	Green Materials,MMW	99	Cu Yards/day	City Of South Gate
Los Angeles	Alhambra Roll-Off Bin Transfer Station	Green Materials,MMW	40	Cu Yards/day	City Of Alhambra
Los Angeles	Paramount Resource Recycling Facility	Const./Dem.,Industrial,MMW	2,450	Tons/day	Metropolitan Waste Disposal Corporation
Los Angeles	East Los Angeles Recycling And Transfer	Const./Dem.,MMW	700	Tons/day	Perdomo/Blt Ent. L.L.C. C/O Cons.Sv.,Inc
Los Angeles	Southern Cal. Disposal Co. R. & T.S.	Green Materials,Industrial,MMW	1,056	Tons/day	Southern Cal. Disposal Co. R. & T.S.
Los Angeles	Waste Management South Gate Transfer	Const./Dem.,Green Materials,Industrial,Inert,MMW	2,000	Tons/day	H.B.J.J., Inc. Sub. Of USA Waste
Los Angeles	Waste Resources Recovery	Const./Dem.,Inert,MMW,Tires,Wood waste	500	Tons/day	Waste Resources Recovery, Inc.
Los Angeles	City Terrace Recycling Transfer Station	Industrial,MMW	700	Tons/day	Arsenian, Robert M.
Los Angeles	Athens Services	Industrial,MMW	5,000	Tons/day	Arakelian Enterprises, Inc.
Los Angeles	B G Rubbish	Const./Dem.,Inert	25	Tons/day	Arklin, Hank
Los Angeles	Grand Central Recycling And Transfer Sta	Const./Dem.,Green Materials,Inert,MMW	5,000	Tons/day	Grand Central Recycling And T.S. Inc.
Los Angeles	Puente Hills Materials Recovery Facility	Const./Dem.,Green Materials,Industrial,Inert,MMW,Wood waste	4,400	Tons/day	County Of Los Angeles Sanitation Dist
Los Angeles	Torrance City Services Facility	Const./Dem.,Inert,MMW	7	Cu Yards/day	City of Torrance
Los Angeles	City of Compton Maintenance Yard	Const./Dem.,Inert,MMW	13	Tons/day	City Of Compton
Los Angeles	Public Service Transfer Station #1	Green Materials	12	Tons/day	City of Long Beach,Public Service Bureau
Los Angeles	Public Service Transfer Station #2	Green Materials,MMW	8	Tons/day	City of Long Beach,Public Service Bureau
Los Angeles	Rob's Roll Off and Recycling	Construction/demolition.	10	Tons/day	Perez, Roberto A.
Los Angeles	City of Pasadena Public Works LVTS	Const./Dem.,Green Materials,MMW	9	Tons/day	City Of Pasadena
Los Angeles	City of Lancaster Main. Yard. MVTS	MMW	100	Tons/day	City of Lancaster Public Works
Los Angeles	City of Lakewood LVTO	Green Materials	15	Tons/day	City of Lakewood Dept. Public Works
Los Angeles	Olive and Center Yard (LVTO)	Green Materials,MMW	3	Tons/day	City of Baldwin Park
Los Angeles	City of Palmdale Limited Volume S T	Inert,MMW	20	Tons/day	City of Palmdale
Los Angeles	City of San Fernando Corp. Yard	Construction/demolition.,Green Materials,Inert,Metals	7	Tons/day	City of San Fernando, Public Works
Los Angeles	City of Glendale Corporation Yard	Green Materials,Inert,MMW	120	Tons/month	City of Glendale, Public Works
Los Angeles	Two Harbors Transfer (Catalina Island)	Const./Dem.,MMW	40	Cu Yards/day	Santa Catalina Island Company (SCIC)
Los Angeles	Pomona Municipal Direct Transfer Fac.	MMW	150	Tons/day	City of Pomona
Los Angeles	Recycled Wood Products	Const./Dem.,Inert	200	Tons/day	Kiralla, Chris
Los Angeles	Construction and Demolition Recycling	Const./Dem.,Inert,Metals,Wood waste	3,000	Tons/day	Interior Removal Specialist, Inc.
Los Angeles	City of Irwindale Limited TS Operation	Green Materials,Inert,Metals,MMW,Tires	55	Cu Yards/day	City of Irwindale, Public Works Dept.
Los Angeles	CalTrans Monrovia Maintenance LVTop	Const./Dem.,Green Materials,Inert,MMW,Tires	10	Cu Yards/day	State of California. CalTrans
Los Angeles	CalTrans Whittier Maintenance LVTop	Const./Dem.,Green Materials,Inert,MMW,Tires	35	Cu Yards/day	State of California. CalTrans
Los Angeles	CalTrans Humphreys Maintenance LVTop	Green Materials,Inert,Metals,MMW,Tires	35	Cu Yards/day	State of California. CalTrans
Los Angeles	CalTrans Garey Maintenance, Route 071	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	40	Cu Yards/day	State of California. CalTrans
Los Angeles	Caltrans Rosemead Maintenance LVTop	Const./Dem.,Inert,Metals,MMW,Tires	12	Tons/day	State of California. CalTrans
Los Angeles	Caltrans Florence Maintenance LVTop	Const./Dem.,Inert,Metals,MMW,Tires	12	Tons/day	State of California. CalTrans
Los Angeles	CalTrans Cerritos Maintenance LVTop	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	12	Tons/day	State of California. CalTrans
Los Angeles	Caltrans Bellflower Maintenance LVTop	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	9	Tons/day	State of California. CalTrans
Los Angeles	CalTrans Valencia Maintenance LVTop	Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Tires	60	Cu Yards/day	State of California. CalTrans
Los Angeles	CalTrans Lancaster Maintenance LVTop	Const./Dem.,Green Materials,Inert,Metals,MMW,Tires	60	Cu Yards/day	State of California. CalTrans
Los Angeles	Caltrans Newhall Maintenance LVTop	Const./Dem.,Inert,Metals,MMW,Tires	60	Cu Yards/day	State of California. CalTrans
Los Angeles	CalTrans Altadena Maintenance LVTop	Const./Dem.,Green Materials,Inert,Metals,MMW,Tires	60	Cu Yards/day	State of California. CalTrans
Los Angeles	City of Glendale Brand Park T.S.	Green Materials,Inert,MMW	15	Cu Yards/day	City of Glendale Parksand Recreation
Los Angeles	Rent-a-Bin (Inert Type A Operation)	Inert	1,499	Tons/day	Randall, Howard
Los Angeles	Rent-a-Bin (Small Vol. CDI Operation)	Const./Dem.	24	Tons/day	Randall, Howard
Los Angeles	Perez Disposal Co., Inc.	Const./Dem.,Inert	25	Tons/day	Perez Disposal Co. , Inc
Los Angeles	City of Sierra Madre Limited Vol T. Op.	Green Materials,Inert,MMW	7	Tons/day	City of Sierra Madre, Public Works
Los Angeles	Pico Rivera Material Recovery Facility	MMW	327	Tons/day	Samarin, Danny D..
Los Angeles	Mission Recycling / West Coast Recycling	MMW	300	Tons/day	Soils, Al
Los Angeles	Mission Recycling/West Coast Recycling	MMW	200	Tons/day	Soils, Al
Los Angeles	Allan Company Material Recovery Facility	MMW	750	Tons/day	Cedarwood-Young DBA Alan Company
Los Angeles	EDCO Recycling and Transfer	Asphalt Shingles,Construction/demolition.,Food Wastes,Green Materials,Industrial,Inert,Metals,Mixed Municipal Waste,Wood waste	1,500	Tons/day	Lee FT: PhilEsp, LLC: Cockriel FT
Los Angeles	Nixon St. Yard- City of Lakewood	Const./Dem.,Green Materials,MMW	4	Tons/day	City of Lakewood
Los Angeles	American Remedial Technologies	Contaminated soil	25,000	Tons/month	Westech Realty, LLC
Los Angeles	Norwalk Transfer Station	Green Materials,MMW	100	Tons/day	Norwalk Industries Transfer Station
Los Angeles	Bel-Art Waste Transfer Station	Const./Dem.,Green Materials,Inert,MMW	1,500	Tons/day	Consolidated Disposal Services L.L.C.
Los Angeles	Southeast Resource Recovery Facility	Green Materials,MMW,Other hazardous	2,240	Tons/day	Serrf, Joint Powers Authority

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County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Los Angeles County					
Los Angeles	Carson Transfer Station & MRF	Const./Dem.,Industrial,MMW	5,300	Tons/day	U.S.A. Waste Of California, Inc.
Los Angeles	Azteca Rubbish	Const./Dem.,Inert	25	Tons/day	Cordova, Jaun
Los Angeles	Rent-A-Bin	Const./Dem.,Inert	25	Tons/day	Randall, Howard and Mary
Los Angeles	Falcon Refuse Center, Inc	Const./Dem.,Industrial,MMW	1,850	Tons/day	Allied Waste Transfer Services of Calif.
Los Angeles	Community Recycling / Res Recovery , Inc	Const./Dem.,Industrial,MMW	1,700	Tons/day	Fry, Thomas
Los Angeles	Central LA Recycling & TS (CLARTS)	MMW	4,025	Tons/day	City of Los Angeles
Los Angeles	Mission Road Recycling & Transfer Statio	Const./Dem.,Green Materials,MMW	1,785	Tons/day	Waste Management Inc - Bradley Lf & Miss
Los Angeles	Angelus Western Paper Fibers, Inc.	MMW	650	Tons/day	Bloom Investment
Los Angeles	Harbor Street Maintenance District Yard	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	Canoga Park Street Maintenance District	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	Silverlake St. Maintenance District Yard	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	Reseda/Woodlamd Hills St. Maint. D.Yard	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	South Street Maintenance District Yard	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	Thatcher Street Maintenance Dist. Yard	Const./Dem.,Inert,MMW	60	Cu Yards/day	City of Los Angeles, Bureau of St. Serv.
Los Angeles	Washington Blvd. Bulky Item DropOff Ct.	Const./Dem.,Metals,MMW,Tires	15	Tons/day	City of Los Angeles Bureau of Sanition
Los Angeles	East Valley Bulky Item Drop-off Center	Metals,MMW,Tires,Tires, Passenger,Wood waste	15	Tons/day	City of Los Angeles Bureau of Sanitation
Los Angeles	Falcon Woodwaste Grinding and Storage Op	Wood waste	199	Tons/day	Browning Ferris Industries of CA (BFI)
Los Angeles	Looney Bins./East Valley Diversion	Const./Dem.	750	Tons/day	City of Los Angeles Dept. Water /Power
Los Angeles	Looney Bins/Downtown Diversion	Const./Dem.	1,500	Tons/day	Southern California Gas Company
Los Angeles	California Waste Services (CWS)	Const./Dem.	1,000	Tons/day	Harbor Redondo, LLC
Los Angeles	Sun Valley Paper Stock MRF and ST	Industrial,MMW	750	Tons/day	Young, Stephen A.
Los Angeles	Direct Disposal C&D Recycling	Const./Dem.	200	Cu Yards/day	Agajanian, Daniel and Tamara
Los Angeles	San Fernando CalTrans - LVTOp.	Green Materials,Inert,MMW	60	Cu Yards/day	California Dept. of Transportation
Los Angeles	North Hollywood Caltrans - LVTOp.	Green Materials,Inert,MMW	60	Cu Yards/day	California Dept. of Transportation
Los Angeles	Tarzana Cal Trans - Limited Vol. T/S Op.	Green Materials,Inert,MMW	60	Cu Yards/day	California Dept. of Transportation
Los Angeles	CWS-Type A Inert Debris Proc. Operation	Inert	1,500	Tons/day	Harbor Redondo LLC.
Los Angeles	Los Angeles Express Materials Rec. Fac.	MMW	240	Tons/day	Olga Wilhelm Trust; Miguel Dilella
Los Angeles	City Fibers -West Valley Plant	MMW	350	Tons/day	City Fibers
Los Angeles	City Fibers - LA Plant No. 2	MMW	300	Tons/day	City Fibers
Los Angeles	Bradley East Processing/Transfer Station	Agricultural,Green Materials,Manure	1,500	Tons/day	Waste Mgt. Recycling &Disposal Ser.of CA
Los Angeles	Caltrans Westdale LVTOp.	Const./Dem.,Green Materials,Inert,MMW	60	Cu Yards/day	California Dept. of Transportation
Los Angeles	American Reclamation CDI Processing Fac.	Const./Dem.,Inert	175	Tons/day	Glendale Metals and Recycling, Inc.
Los Angeles	L & S Disposal	Metals,MMW	8	Tons	L & S Disposal
Los Angeles	Athens Sun Valley Mat. Rec. & TS	Const./Dem.,Green Materials,Inert,Metals,MMW,Wood waste	1,500	Tons/day	Arakelian Enterprises, Inc.
Los Angeles	Western District Satellite Yard	MMW	149	Tons/day	City Of Los Angeles Bureau Of Sanitation
Los Angeles	Cordova Construction Services	Const./Dem.,Green Materials,MMW	60	Cu Yards/day	Cordova Construction Services Inc
Los Angeles	Innovative Waste Control	Const./Dem.,Industrial,Inert,MMW	1,250	Tons/day	Consolidated Disposal Services L.L.C.

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County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Orange County					
Orange	Stanton Recycling and Transfer Facility	Agricultural,Construction/demolition.,Industrial,Mixed Municipal Waste	1,800	Tons/day	City Of Stanton
Orange	Rainbow Transfer/Recycling Company, Inc.	Construction/demolition.,Industrial,Mixed Municipal Waste,Wood waste	2,800	Tons/day	JBST Properties, LLC
Orange	CVTRegional Material. Recovery and TS	Industrial,Mixed Municipal Waste	6,000	Tons/day	Republic Waste Services of So. CA, LLC
Orange	Sunset Envir Inc TS/Resource Rec Fac	Construction/demolition.,Industrial,Mixed Municipal Waste	3,000	Tons/day	Sunset Environmental
Orange	City Of Newport Beach Transfer Station	Construction/demolition.,Mixed Municipal Waste	300	Tons/day	City Of Newport Beach
Orange	Waste Management Of Orange	Construction/demolition.,Mixed Municipal Waste	1,500	Tons/day	Hambarian Properties
Orange	Madison Materials, Inc.	Construction/demolition.,Green Materials,Inert,Metals	950	Tons/day	JBW Enterprises, LLC
Orange	CR&R South County MRF	Construction/demolition.,Food Wastes,Green Materials,Wood waste	980	Tons/day	Rancho Mission Viejo, LLC
Orange	City of Stanton Public Works Yard	Construction/demolition.,Inert,Metals,Mixed Municipal Waste,Wood waste	10	Cu Yards/day	City of Stanton
Orange	Waste Mgt. of Orange LVTS	Mixed Municipal Waste	15	Tons/day	USA Waste of California, Inc,
Orange	City of Brea Service Center LVTO	Green Materials,Mixed Municipal Waste	12	Tons/day	City of Brea
Orange	City of Costa Mesa Corporation Yard	Construction/demolition.,Green Materials,Inert,Mixed Municipal Waste	50	Cu Yards/day	City of Costa Masa
Orange	City of Laguna Beach Corporation Yard	Mixed Municipal Waste	4	Tons/day	City of Laguna Beach
Orange	City of Fullerton Maintenance Ser. Dept.	Mixed Municipal Waste	40	Cu Yards/day	City of Fullerton Main..Ser. Dept.
Orange	City of Cypress Maintenance Yard LVTSOp	Green Materials,Mixed Municipal Waste	10	Tons/day	City of Cypress Public Works Dept.
Orange	City of La Habra Public Work Dept.	Construction/demolition.,Green Materials,Mixed Municipal Waste	20	Cu Yards/day	City of La Harba Public Works Dept.
Orange	City of Santa Ana Corporate Yard	Construction/demolition.,Green Materials,Mixed Municipal Waste	10	Tons/day	City of Sanat Ana Corporate Yard
Orange	City of San Clemente LVTS	Construction/demolition.,Green Materials,Mixed Municipal Waste	5	Tons/day	City of San Clemente
Orange	Municipal Service Center LVTS Op.	Construction/demolition.,Green Materials,Mixed Municipal Waste	60	Cu Yards/day	City of Garden Grove Public Works Dept.
Orange	City of Orange Corporate Yard LVTS Op.	Construction/demolition.,Green Materials,Mixed Municipal Waste	3	Tons/day	City of Orange, Public Works Dept.
Orange	City of Huntington Beach, P.W.Yard	Inert,Mixed Municipal Waste	55	Cu Yards/day	City of Huntington Beach
Orange	City of Villa Park LVT Operation	Mixed Municipal Waste	12	Cu Yards/day	City of Villa Park
Orange	City of Seal Beach Public Works Yard	Mixed Municipal Waste	1	Tons/day	City of Seal Beach
Orange	Fountain Valley City Yard	Green Materials,Mixed Municipal Waste	2	Tons/day	City of Fountain Valley
Orange	City of Yorba Linda LVTOp.	Green Materials,Mixed Municipal Waste	3	Tons/day	City of Yorba Linda, Public Works
Orange	City of San Juan Capistrano LVTOp.	Green Materials,Mixed Municipal Waste	40	Cu Yards/day	City of San Juan Capistrano
Orange	City of Huntington Beach # 2-LVTOp.	Mixed Municipal Waste	55	Cu Yards/day	City of Huntington Beach
Orange	City of Irvine Op.Support Fac. LVT Op.	Inert,Mixed Municipal Waste	60	Cu Yards/day	City of Irvine
Orange	Caballero Yard - LVT Op.	Green Materials,Mixed Municipal Waste	48	Cu Yards/day	City of Buena Park
Orange	Corporate City Yard Buena park	Green Materials,Inert,Mixed Municipal Waste	15	Cu Yards/day	City of Buena Park
Orange	Placenta Street Sweeper Trandfer Station	Inert,Mixed Municipal Waste	4	Tons/day	City of Anaheim, Finance Department
Orange	Vermont Street Sweeper Transfer Station	Inert,Mixed Municipal Waste	4	Tons/day	City of Anaheim, Finance Department
Orange	Pinney Street Sweeper Transfer Satation	Inert,Mixed Municipal Waste	2	Tons/day	City of Anaheim, Finance Department
Orange	City of Westminster Maintenance LVT Op.	Inert,Mixed Municipal Waste	6	Tons/day	Southern California Edison
Orange	Cresent Street Sweeper Transfer Station	Inert,Mixed Municipal Waste	4	Tons/day	City of Anaheim, Finance Department
Orange	City of Tustin Maintaance Yard -LVTOp.	Green Materials,Inert,Mixed Municipal Waste	8	Tons/day	City of Tustin
Orange	Ninth Street Sweeper Transfer Stations	Inert,Mixed Municipal Waste	3	Tons/day	City of Anaheim, Finance Department
Orange	Western Street Sweeper TransferStataion	Inert,Mixed Municipal Waste	3	Tons/day	City of Anaheim, Finance Department
Orange	Bellis Park Yard - LVT Op.	Green Materials,Inert,Mixed Municipal Waste	12	Cu Yards/day	City of Buena Park
Orange	City of La Palma Corp.Yard LVTOp.	Inert,Mixed Municipal Waste	20	Cu Yards/day	City of La Palma Public Works
Orange	City of Los Alamitos LVT Op.	Green Materials,Wood waste	3	Tons/day	Joint Forces Training Base
Orange	City of Placentia Corp. Yard - LVTOp.	Green Materials,Inert,Mixed Municipal Waste	45	Cu Yards/day	City of Placentia
Orange	Prima Deshecha Materials Recovery Fac.	Mixed Municipal Waste	1,000	Tons/day	OC Waste & Recycling
Orange	OC Public Works Portola Yard LVTO	Construction/demolition.	30	Cu Yards/day	Orange County Public Works Department
Orange	OC Public Works Capistrano Yard LVTO	Construction/demolition.	30	Cu Yards/day	Orange County Public Works Department

APPENDIX A

County	Name	Materials Accepted	Throughput	Throughput Units	Owner
Riverside County					
Riverside	Pinon Flats Transfer Station Lim Vol Op.	Mixed Municipal Waste	36	Cu Yards/day	US Forest Svc-Idyllwild
Riverside	Idyllwild Collection Station	Ash,Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Wood waste	60	Tons/day	County Of Riverside Waste Mgmt Dept
Riverside	Moreno Valley Solid Waste R & T Facility	Construction/demolition.,Green Materials,Metals,Mixed Municipal Waste	2,000	Tons/day	Waste Management Of The Desert
Riverside	Perris Transfer Station and MRF	Green Materials,Mixed Municipal Waste	3,000	Tons/day	CR&R Incorporated
Riverside	Coachella Valley Transfer Station	Agricultural,Construction/demolition.,Green Materials,Industrial,Inert,Metals,Mixed Municipal Waste,Tires	1,100	Tons/day	County Of Riverside Waste Mgmt Dept
Riverside		Construction/demolition.,Green Materials,Inert,Metals,Mixed Municipal Waste,Wood waste	2,700	Tons/day	County Of Riverside Waste Mgmt Dept
Riverside	Anza Collection Station	Mixed Municipal Waste	60	Tons/day	County Of Riverside Waste Mgmt Dept
Riverside	Chuckawalla Valley State Prison Rasp Fac	Mixed Municipal Waste	25	Tons/day	State Of Calif/Dept Of Corrections
Riverside	Edom Hill Transfer Station	Agricultural,Construction/demolition.,Dead Animals,Food Wastes,Green Materials,Industrial,Metals,Mixed Municipal Waste,Tires,Wood waste	2,600	Tons/day	Riverside Co. Waste Management Dept.
Riverside	Southern California Recycling	Green Materials,Inert,Metals	3,040	Tons/year	Southern California Recycling
Riverside	Palm Springs Transfer and Recycling Fac.	Mixed Municipal Waste	750	Tons/day	Burrtec Waste Industries, Inc.
Riverside	Palm Springs Disposal Services	Mixed Municipal Waste	10	Tons/day	Palm Spring Disposal Services
Riverside	MACTEC Recycling Facility	Construction/demolition.,Wood waste	175	Tons/day	Rios, Gloria O.
Riverside	Desert Recycling, Inc.	Mixed Municipal Waste	1,500	Tons/day	Mehring, Robert and Stephanie
Riverside	T.O.M. Site	Inert,Mixed Municipal Waste	14	Tons/day	Pina, Salvador and Ella
Riverside	Palo Verde Valley Disposal Services	Mixed Municipal Waste	8	Tons/day	Benz Disposal Company Inc.

APPENDIX A

County	Name	Materials Accepted	Throughput	Throughput Units	Owner
San Bernardino County					
San Bernardino	Victorville Sanitary Landfill	Construction/demolition			
San Bernardino	USMC - 29 Palms Disposal Facility	Agricultural,Const./Dem,Industrial,MMW	100	Tons/day	
San Bernardino	Heap's Peak Transfer Station	Mixed Municipal Waste	600	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Camp Rock Transfer Station	Mixed Municipal Waste	14	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Advance Disposal Transfer/Processing Fac	Construction/demolition,Industrial,Mixed Municipal Waste,Tires,Wood waste	600	Tons/day	
San Bernardino	Advance Disposal Transfer/Processing Fac	Const./Dem			
San Bernardino	West Valley Materials Recvr'y Facility	Construction/demolition,Green Materials,Industrial,Mixed Municipal Waste,Wood waste	7,500	Tons/day	West Valley MRF, LLC
San Bernardino	West Valley Materials Recvr'y Facility	Wood waste	20	Tons/day	
San Bernardino	Victor Valley MRF & Transfer Station	Mixed Municipal Waste	600	Tons/day	Mojave Desert & Mtn Solid Waste Authorit
San Bernardino	Newberry Springs Med. Vol. T/P Facility	Mixed Municipal Waste	15	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Baker Medium Volume Transfer Processing	Metals,Mixed Municipal Waste,Tires	25	Tons/day	County of San Bernardino, Com. Serv.Dist
San Bernardino	Trails End (Morongo Valley) Transfer St.	Mixed Municipal Waste	95	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Hesperia Sanitary Landfill Lvto	Mixed Municipal Waste	60	Cu Yards/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Apple Valley Limited Volume Transfer Op.	Mixed Municipal Waste	60	Cu Yards/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Sheep Creek Transfer Station	Construction/demolition,Green Materials,Mixed Municipal Waste,Tires	198	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Twentynine Palms Transfer Station	Agricultural,Ash,Construction/demolition,Industrial,Mixed Municipal Waste,Tires	200	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Trona-Argus Transfer Station	Agricultural,Construction/demolition,Industrial,Mixed Municipal Waste,Tires	88	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	Public Trash Site #2 - Lvto	Mixed Municipal Waste	60	Cu Yards/day	City Of Big Bear Lake
San Bernardino	Public Trash Site #1	MMW	100	Tons	Oso Grande Properties
San Bernardino	Inland Regional MRF & TS	Construction/demolition,Green Materials,Industrial,Mixed Municipal Waste,Wood waste	1,950	Tons/day	Republic Waste Services of So. CA, LLC
San Bernardino	Big Bear Transfer Station	Agricultural,Ash,Construction/demolition,Dead Animals,Green Materials,Mixed Municipal Waste	400	Tons/day	County of San Bernardino S.W. Mgt Div
San Bernardino	TPST Soil Recyclers of California	Contaminated soil	1,350	Tons/day	Soil Safe of California, Inc.
San Bernardino	Filter Recycling Services, Inc.	Contaminated soil	25	Tons/day	Filter Recycling Services, Inc.
San Bernardino	City of Claremont Community Services Dep	Construction/demolition,Green Materials,Mixed Municipal Waste	99	Tons/day	City of Claremont
San Bernardino	Clean Mountain Site- Crestline	Mixed Municipal Waste	60	Cu Yards/day	Rim of the World School District
San Bernardino	Clean Mountain Site-Running Springs	Mixed Municipal Waste	60	Cu Yards/day	Rim of the World School District
San Bernardino	Clean Mountain Site- Green Valley Lake	Mixed Municipal Waste	60	Cu Yards/day	Green Valley Lake Mutual Water Company
San Bernardino	Clean Mountain Site-LakeArrowhead Elm	Agricultural,Wood waste	60	Cu Yards/day	Rim of the World School District
San Bernardino	Clean Mountain - Site Hwy 18	Wood waste	60	Cu Yards/day	Rim of the World School District
San Bernardino	Ener Tech Environmental California LLC	Sludge (BioSolids)	1,080	Tons/day	City Of Rialto
San Bernardino	Chino Valley Rock	Construction/demolition,Inert	1,500	Tons/day	Ontario Land Investment, LLC
San Bernardino	Inland Empire Environmental	Const./Dem,MMW,Other designated	900	Tons/day	55 Tippecanoe Partnership L.P.
San Bernardino	Big Bear Disposal Medium Volume C&D	Construction/demolition,Inert	40	Tons/day	Fred M. Ransom
San Bernardino	Big Bear Disposal Medium Volume T/P Fac.	MMW	50	Tons/day	Fred M. Ransom

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County	Name	Materials Accepted	Throughput	Throughput Units	Owner
San Diego County					
San Diego	Viejas Rural Large Vol. Transfer Station	Mixed municipal	307	Cu Yards/day	Allied Waste Industries, Inc.
San Diego	EDCO Transfer Station	Construction/demolition,Industrial,Mixed n	1,500	Tons/day	EDCO Disposal Corporation
San Diego	Campo Limited Vol. Transfer Operation	Mixed municipal	15	Tons/day	County Of San Diego Solid Waste Division
San Diego	Escondido Resource Recovery	Construction/demolition,Green Materials,N	2,500	Tons/day	
San Diego	EDCO Station	Construction/demolition,Green Materials,I	200	Tons/day	City Of La Mesa
San Diego	Fallbrook Recycling Facility	Construction/demolition,Mixed municipal	500	Tons/day	EDCO Disposal Corporation
San Diego	Ramona MRF And Transfer Station	Construction/demolition,Green Materials,N	370	Tons/day	JEMCO
San Diego	Waste Management Of North County		4,500	Tons	Waste Management Of North County
San Diego	Universal Refuse Removal Recycling & T.S		1,000		Universal Refuse Removal
San Diego	Amswede Recycling	Construction/demolition,Inert,Metals,Woo	25	Tons/day	Stenvall, Tom
San Diego	EDCO CDI Recycling	Construction/demolition	175	Tons/day	Federal Boulevard Properties
San Diego	SANCO Resource Recovery	Construction/demolition	1,000	Tons/day	Federal Boulevard Properties
San Diego	Waste Mgt.North Co. Limited Vol.Trans Op	Construction/demolition,Inert,Metals	15	Tons/day	Keenan, James W. , c/o Walter E. Rusinek
San Diego	Daily Disposal Services Emergency Debris	Ash,Construction/demolition,Metals,Mixed	500	Tons/day	Otonello, Mike and Janet
San Diego	EDCO Recycling	Mixed municipal	516	Tons/day	Burr, Edward and Sandra
San Diego	SANCO Recycling	Mixed municipal	735	Tons/day	Jemco Equipment
San Diego	Coast Waste Management, Inc. LVTS Op.	Mixed municipal	5	Tons/day	County of San Diego, DWP Airports
San Diego	Waste Management of San Diego -LVTO	Mixed municipal	15	Tons/day	City of El Cajon
San Diego	EDCO Waste and Recycling - LVT Op.	Mixed municipal	15	Tons/day	Federal Boulevard Properties
San Diego	Escondido Disposal, Inc.	Mixed municipal	15	Tons/day	Jemco Equipment Corporation
San Diego	Santee Limited Volume Trnsfer Operation	Inert,Mixed municipal	10	Tons/day	California Dept. of Transportation
San Diego	EDCO Bin Yard	Mixed municipal	15	Tons/day	Dalbergia Street Properties
San Diego	Otay CDI MVPP	Asphalt Shingles,Construction/demolition,I	174	Tons/day	Otay Landfill Inc.
San Diego	City Of San Diego Water Operations		50	Tons/day	City Of San Diego
San Diego	City of San Diego Env.Ser.Dept. LVTO	Green Materials,Mixed municipal	80	Cu Yards/day	City of San Diego Env. Ser. Dept.
San Diego	LEED Recycling, Inc.	Asphalt Shingles	1,700	Tons/month	Eastgate Miramar Associates
San Diego	Palomar Transfer Station, Inc	Construction/demolition,Green Materials,I	800	Tons/day	County of San Diego, Airport Division

All of Appendix A data herein has been gathered from the CalRecycle Solid Waste Information Systems (SWIS) Database downloadable file

Appendix B

Waste-by-Rail Map

Courtesy of Los Angeles County Sanitation Districts

Waste-by-Rail Landfills



Appendix C

San Diego County Five-Year CIWMP/RAIWMP Review Report

Five-Year CIWMP/RAIWMP Review Report

DRAFT January 11, 2010

SECTION 1.0 COUNTY OR REGIONAL AGENCY INFORMATION			
I certify that the information in this document is true and correct to the best of my knowledge, and that I am authorized to complete this report and request approval of the CIWMP or RAIWMP Five-Year Review Report on behalf of:			
County or Regional Agency Name County of San Diego		County San Diego	
Authorized Signature		Title Deputy Director	
Type/Print Name of Person Signing Donna Turbyfill	Date	Phone (858) 874-4108	
Person Completing This Form (please print or type) Stephanie Ewalt	Title Recycling Specialist II	Phone (858) 874-4285	
Mailing Address 5469 Kearny Villa Road, Suite 305	City San Diego	State CA	Zip 92123
E-mail Address Stephanie. Ewalt@sdcounty.ca.gov			

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SECTION 2.0 – BACKGROUND

This is the County of San Diego's second Five-Year Review Report since the approval of CIWMP.

The following changes have occurred since the approval of the County of San Diego's planning documents or the last Five -Year CIWMP.

None of the following have occurred.

- Diversion goal reduction
- New regional agency
- Changes to regional agency
- New city (none)
- Other _____

SECTION 3.0 LOCAL TASK FORCE REVIEW

- a. In accordance with Title 14 CCR, Section 18788, the Local Task Force (LTF) reviewed each element and plan included in the CIWMP or RAIWMP and finalized its comments:

At the _____ LTF meetings. Electronically (fax, e-mail) Other (Explain): _____

- b. The County of San Diego received the written comments from the LTF on _____.

- c. A copy of the LTF comments:

Is included as Appendix _____.

Was submitted to the CIWMB on _____.

SECTION 4.0 - TITLE 14, CALIFORNIA CODE OF REGULATIONS SECTION 18788 (3) (A) THROUGH (H)

San Diego County CIWIMP documents, accompanied by individual annual reports, continue to serve as appropriate reference tools for implementing and monitoring compliance with AB939. The goals, objectives, and policies in the elements are still applicable.

The subsections below address the areas of change specified in the regulations, and provide specific analysis regarding the continued adequacy of the planning documents including a determination regarding any need for a revision to one or more of the planning documents.

SECTION 4.1 – CHANGES IN DEMOGRAPHICS IN THE COUNTY OR REGIONAL AGENCY

Tables 1a and 1b below depict the County of San Diego's demographic data. The rate of change for population and employment is shown from 2000 to 2008.

San Diego County experienced a high rate of population and economic growth from 2000 to 2008. Population changes vary from jurisdiction to jurisdiction. Countywide, population increased 11% with one jurisdiction growing by 50% (San Marcos) since 2000 and one jurisdiction dropping 4% (Coronado). The Countywide employment rate grew by 7%.

The jurisdictions in the County of San Diego have responded to increases in population with a variety of different measures, including adding new or improved solid waste management and more recycling programs, instituting mandatory recycling requirements, and providing technical assistance for residents and businesses, all of which help meet AB939 requirements.

Seventeen of the 19 San Diego jurisdictions exceeded the 50% diversion requirement by 2006 (Table 4). The highest diversion rate reached in the county was Solana Beach with 68%. Lemon Grove and Chula Vista fell below the 50% diversion requirement, and continue to work with the State to increase their diversion rates.

Tables 2 and 3 illustrate changes in the quantities of waste generated and disposed within the county. Table 2 illustrates the countywide waste generation in 2000 and 2006 including the rate of change between those years. Table 3 shows San Diego's solid waste disposal tonnages in 2000 and in 2008 and also includes the rate of change. Table 4 summarizes each jurisdiction's progress in implementing the Source Reduction and Recycling Element (SRRE) and compliance with the 50% diversion rate requirement. In 2007, AB1016 changed the diversion reporting from a

percentage calculation to a target of daily pounds per capita disposal based on each jurisdiction's average waste generation from 2003 through 2006. In Table 4, years 2007 and 2008 are displayed as 50% equivalent per capita disposal.

Further analysis of generation and disposal of solid waste appear in Section 4.2

Table 1a. Demographics of Jurisdictions in San Diego County from 2000 through 2008

Population				
	2000	2008	2000-2008	2000-2008
Jurisdiction	Total Population	Total Population	Difference	% Change
Carlsbad	78,247	103,406	25,159	32%
Chula Vista	173,556	230,397	56,841	33%
Coronado	24,100	23,030	-1,070	-4%
Del Mar	4,389	4,561	172	4%
El Cajon	94,869	97,555	2,686	3%
Encinitas	58,014	63,615	5,601	10%
Escondido	133,559	143,259	9,700	7%
Imperial Beach	26,992	28,092	1,100	4%
La Mesa	54,749	56,445	1,696	3%
Lemon Grove	24,918	25,511	593	2%
National	54,260	56,144	1,884	3%
Oceanside	161,039	178,102	17,063	11%
Poway	48,044	50,744	2,700	6%
San Diego	1,223,400	1,333,617	110,217	9%
San Marcos	54,977	82,419	27,442	50%
Santee	52,946	55,850	2,904	5%
Solana Beach	12,979	13,447	468	4%
Unincorporated County	442,919	489,958	47,039	11%
Vista	89,857	95,400	5,543	6%
Countywide	2,813,833	3,131,552	317,719	11%

Source: 2000 and 2008 Population Figures: SANDAG Website: <http://datawarehouse.sandag.org/>

Table 1b. Employment in San Diego County from 2000 through 2008			
Employment Factor	2000	2008	% Change
Countywide Employment	1,407,152	1,501,080	7%

Source: 2000 and 2008 Employment, Figures: SANDAG Website: <http://datawarehouse.sandag.org/>

SECTION 4.2 CHANGES IN QUANTITIES OF WASTE WITHIN THE COUNTY OR REGIONAL AGENCY; AND CHANGES IN PERMITTED DISPOSAL CAPACITY AND WASTE DISPOSED IN THE COUNTY OR REGIONAL AGENCY.

Between 2000 and 2006, the quantity of solid waste generated within the County increased by 33% from 2000 to 2006, totaling 2,154,506 tons (Table 2). All jurisdictions generated more solid waste. Jurisdictions with the greatest increases over the seven years were Chula Vista, Oceanside, San Marcos, and Santee. Countywide solid waste disposal dropped by one percent between 2000 and 2008.

The 2005 Siting Element of the Countywide Integrated Waste Management Plan (CIWMP) measured an annual rate of increase in the disposal rate to landfills of approximately 5.4 percent from 1995 to 2003. At that time, the growth was expected to slow to a 3.4% increase per year from 2005 to 2017, accommodating projected changes in population growth (Figure 1), and assuming a 50 percent diversion rate.

In 2005, regression analysis predicted an increase from 3.7 million tons landfilled in 2002 to 6.1 million tons disposed in landfills by 2017. By 2017, county daily permitted tonnage at the landfills would be saturated. This did not include proposed expansions at Sycamore Landfill. Considering the 2002 permitted daily tonnages, and predicted landfill expansions, plus exports minus predicted imports, the mean value of the regression predicted sufficient landfill space will be available until 2028.

In 2005, the proposed Gregory Canyon Landfill was assumed to come on line later that year, but opening has been delayed. In this analysis, Gregory Canyon is assumed to open in 2015, though the actual year is unclear.

In 2005 landfilled tonnages were at their peak in San Diego County, and tonnage has fallen dramatically from 2006 through 2010 by about one million tons. No single factor has been identified for this precipitous drop, but the economic recession has caused more people and businesses to discard less waste. Another strong reason for the reduced landfilling rate has been increased conservation and recycling activities. Xeriscape landscaping, which reduces production of green waste, is more widely used, compost facilities have expanded, jurisdictions have implemented mandatory recycling ordinances, and there are several new construction and demolition recycling facilities.

The one million-ton decrease in solid waste disposal between 2006 and 2010 had a significant effect on the statistical prediction for landfill space needs in the county. The tonnage reduction and two new major landfill expansions, one at Miramar Landfill and one at Sycamore Landfill, have changed the county's capacity (Figure 1).

Following the approved method of prediction in the previous Siting Element (2005) a linear regression model was used to plot future disposal trends by using disposal data from 1995 through 2009. The trend line projects a gradual increase in disposal from 2010 to 2030. The data fit a linear regression for predictability ($R^2 = 0.3338$) through the required 15 years estimation period (2010 – 2025).

Using current tonnage figures through 2009 in Figure 1, the decrease in disposal tonnage from 2006 through 2009 results in approximately one million additional tons capacity, which equates to approximately two million cubic yards of additional landfill space.

Table 2 - Solid Waste Generation Tonnage Comparison for San Diego County 2000 to 2006

Jurisdiction	2000	2006	2000-2006 Difference	2000-2006 % Change
Carlsbad	264,304	307,568	43,264	16%
Chula Vista	228,243	440,359	212,116	93%
Coronado	91,864	118,604	26,740	29%
Del Mar	29,841	34,943	5,102	17%
El Cajon	219,618	276,813	57,195	26%
Encinitas	140,997	177,226	36,229	26%
Escondido	250,584	316,120	65,536	26%
Imperial Beach	34,392	42,536	8,144	24%
La Mesa	104,714	133,080	28,366	27%
Lemon Grove*	35,976	44,689	8,713	24%
National City	129,395	162,638	33,243	26%
Oceanside	249,588	405,545	155,957	62%
Poway	160,494	181,642	21,148	13%
San Diego	3,299,472	4,211,231	911,759	28%
San Marcos	156,773	239,316	82,543	53%
Santee	89,468	134,590	45,122	50%
Solana Beach	35,484	45,997	10,513	30%
Unincorporated County	819,238	1,195,560	376,322	46%
Vista*	216,395	244,889	28,494	13%
County Total	6,558,840	8,713,346	2,154,506	33%

Sources

Source: 2000 and 2006 Figures: CalRecycle: <http://www.calrecycle.ca.gov/LGCentral/Tools/mars/DrmcMain.asp>

* Board approved on Good Faith Effort. Generation may not be accurate.

Table 3. Solid Waste Disposal Tonnage Comparison for San Diego County 2000 to 2008

			2000 - 2008	2000 - 2008
Jurisdiction	2000	2008	Difference	% Change
Carlsbad	109,479	122,397	12,919	12%
Chula Vista	150,767	174,583	23,815	16%
Coronado	40,859	47,870	7,011	17%
Del Mar	14,603	10,376	-4,228	-29%
El Cajon	97,985	105,222	7,237	7%
Encinitas	70,646	68,583	-2,063	-3%
Escondido	133,573	141,991	8,417	6%
Imperial Beach	17,952	12,894	-5,058	-28%
La Mesa	63,943	37,265	-26,678	-42%
Lemon Grove	22,733	21,557	-1,177	-5%
National City	61,122	52,009	-9,113	-15%
Oceanside	135,458	136,715	1,257	1%
Poway	56,414	62,420	6,006	11%
San Diego	1,723,501	1,544,891	-178,610	-10%
San Marcos	84,067	89,132	5,065	6%
Santee	60,281	52,184	-8,097	-13%
Solana Beach	19,240	16,412	-2,828	-15%
Unincorporated San Diego County	461,371	613,270	151,898	33%
Vista	110,040	104,187	-5,854	-5%
County Total	3,434,036	3,413,957	-20,079	-1%

Sources: 2000 and 2008 Figures: CalRecycle:
<http://www.calrecycle.ca.gov/LGCentral/Reports/DRS/Origin/WFOrgin.aspx>

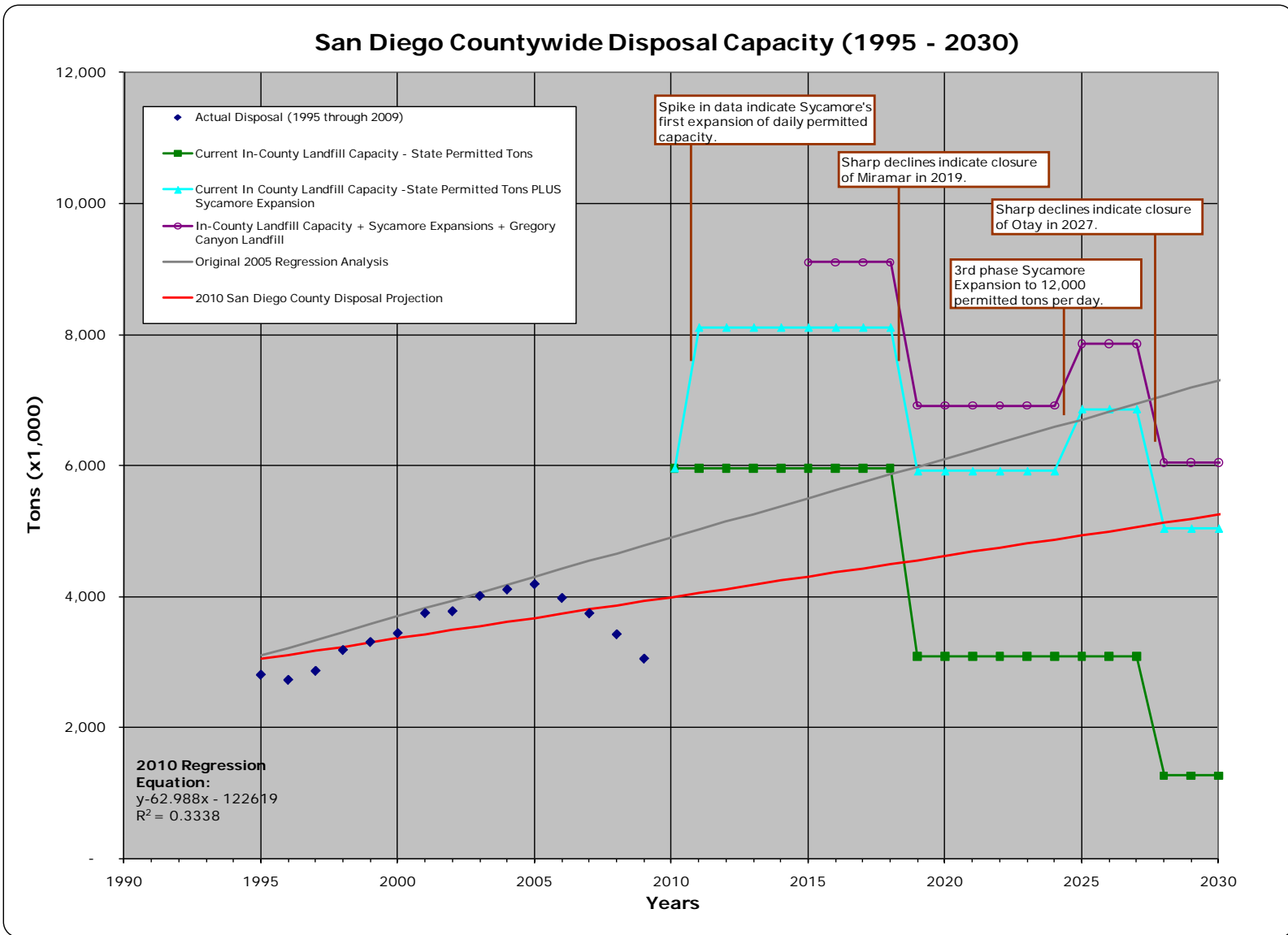
Table 4. Solid Waste Diversion Rates for all San Diego County Jurisdictions 1995 to 2008

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007*	2008*
Carlsbad	57%	48%	50%	44%	50%	59%	55%	55%	48%	57%	55%	57%	7.0	6.5
Chula Vista	42%	42%	41%	39%	36%	34%	53%	54%	51%	50%	48%	54%	4.7	4.2
Coronado	36%	27%	23%	12%	51%	56%	54%	53%	50%	57%	55%	54%	11.6	11.4
Del Mar	40%	36%	35%	NA	NA	51%	50%	51%	54%	58%	52%	56%	17.1	12.5
El Cajon	43%	51%	42%	60%	63%	55%	51%	50%	51%	54%	55%	59%	6.2	5.9
Encinitas	46%	49%	51%	40%	47%	50%	49%	49%	48%	55%	54%	56%	6.4	5.9
Escondido	49%	45%	48%	43%	43%	47%	42%	41%	49%	53%	49%	53%	5.2	5.3
Imperial Beach	40%	41%	42%	40%	44%	50%	45%	48%	45%	49%	54%	57%	3.0	2.5
La Mesa	47%	41%	50%	48%	42%	43%	45%	38%	30%	42%	50%	54%	4.8	3.6
Lemon Grove	19%	34%	37%	7%	15%	39%	30%	31%	46%	52%	47%	44%	4.7	4.6
National City	34%	48%	38%	38%	47%	53%	50%	52%	50%	53%	53%	53%	5.4	5.1
Oceanside	48%	47%	49%	47%	47%	46%	45%	41%	40%	57%	58%	59%	4.6	4.2
Poway	55%	56%	53%	51%	53%	65%	44%	57%	54%	56%	63%	62%	7.3	6.7
San Diego	35%	45%	49%	46%	45%	48%	51%	44%	45%	52%	52%	55%	7.1	6.3
San Marcos	47%	45%	51%	48%	44%	47%	42%	43%		52%	53%	57%	6.6	5.9
Santee	39%	52%	45%	30%	35%	33%	36%	47%	47%	51%	54%	61%	5.6	5.1
Solana Beach	48%	52%	53%	42%	47%	46%	50%	53%	50%	56%	56%	68%	7.6	6.7
Unincorporated County	48%	45%	50%	45%	48%	44%	51%	54%	50%	50%	50%	54%	7.2	6.7
Vista	43%	48%	55%	51%	42%	49%	50%	45%	34%	46%	41%	47%	6.5	6.0
San Diego County Average	43%	45%	45%	41%	44%	48%	47%	48%	47%	53%	53%	56%	6.8	6.1

Source: <http://www.calrecycle.ca.gov/LGCentral/Tools/MARS/JurDrSta.asp?VW=In>

* Staff Reviewed Only - New measurement: per capita disposal per person per day. Population Disposal number used (PPD - annual)

Figure 1.



Annual disposal is predicted to increase from approximately 3.9 million tons in 2010 to approximately 5.25 million tons in 2030. The methods for the predictive model are as follows for Figure 1: (1) The annual disposal for years 1995 through 2009 was identified and plotted; (2) Regression analysis determined the slope ($y = 62.988x - 122619$), with an R^2 of 0.3338; (3), The total permitted daily landfill capacity for San Diego landfills, including Sycamore, Borrego, Otay and Miramar was determined by consulting Local Enforcement Agencies and landfill operators. The total annual tonnage capacity of landfills was calculated by multiplying tons permitted daily and permitted days of operation per year.

Results. In Figure 1, the plotted line indicated with squares represents the total in-county capacity which the State currently permits. The plotted line indicated by triangles represents the total in-county capacity which the State currently permits plus the Sycamore Landfill expansions assumed to begin in late 2010. The following assumptions were made during this analysis.

- Permitted daily capacity provided by Local Enforcement Agencies was used to determine remaining landfill space. Note: permitted daily capacity is different than airspace and permits can and may be issued to expand capacity or days of operation.
- Otay Landfill has 27 million cubic yards of capacity as of March 2010 and has a closure date of 2027.
- Miramar Landfill is assumed to close in 2019.
- Sycamore Landfill has 43 million cubic yards of capacity. Sycamore's first expansion is assumed to be completed in 2012 and follow a graduated expansion in permitted tons per day. Additional expansion phases will occur as needed and will coincide with needs such as Miramar and Otay closures. It is assumed that in 2012, permitted tons per day will increase to 6,800 tons per day; in 2020 to 9,000 tons per day; and in 2026, to 12,000 tons per day.
- A countywide disposal of 3,047,044 tons is assumed for 2009.

The disposal growth projection trend line and the permitted total capacity plot line, including the Sycamore Landfill and Miramar expansions, cross in 2028 (Figure 1). When these two lines cross, disposal will meet permitted capacity. This illustrates that the County of San Diego has enough daily permitted disposal capacity for the next 18 years, thereby meeting the State requirements that the County maintain 15 years of disposal capacity.

Given the above analysis and continued improvements in recycling, San Diego County continues to have 15 years of disposal capacity. Revision to the Countywide Siting Element of the CIWMP is not warranted at this time.

Section 4.3 - CHANGES IN FUNDING SOURCE FOR ADMINISTRATION OF THE SITING ELEMENT (SE) AND SUMMARY PLAN (SP)

Since approval of the CIWMP Siting Element and Summary Plan in September 2005, the County has not experienced any significant changes in funding sources for administration and therefore revision of the planning documents is not warranted.

Section 4.4 - CHANGES IN ADMINISTRATIVE RESPONSIBILITIES

Since the last approval of the CIWMP Siting Element and Summary Plan in September 2005 the County has not experienced any significant changes in administrative responsibilities. Revision of the planning documents is not warranted.

Section 4.5 - PROGRAMS THAT WERE SCHEDULED TO BE IMPLEMENTED BUT WERE NOT

This section addresses programs that were scheduled to be implemented but were not, a statement as to why they were not implemented, the progress of programs that were implemented, a statement as to whether programs are meeting their goals, and if not what contingency measures are being enacted to ensure compliance with Public Resources Code section 41751.

1. Progress of Program Implementation

- a. Source Reduction and Recycling Element (SRRE) and Household Hazardous Waste Element (HHWE)

All program implementation information has been updated in the CalRecycle's Electronic Annual Reports (EAR).

- b. Nondisposal Facility Element (NDFE)

All jurisdictions are in compliance. Two jurisdictions (Escondido and Lemon Grove) are currently updating their Non Disposal Facility Elements due to new developments, which were documented in their Annual Reports. The Unincorporated County NDFE was updated in November, 2008 (Appendix A).

- c. Countywide Siting Element (SE)

The following items should be noted as changes from the Siting Element approved by the CalRecycle in 2005.

- i. There has been a significant decrease in estimated disposed tonnage annually from the original estimates in 2005. Given recycling efforts combined with the economic downturn, San Diego has been able to provide sufficient countywide disposal although population has steadily increased.
- ii. The Miramar Landfill height increase extends its closure date to 2019 rather than 2011.
- iii. Sycamore Landfill expansion. Although the plans for expansion are described in the 2005 Siting Element, plans for graduated increases in daily permitted tonnages have changed. The first expansion is assumed to be completed in 2012 and follow a schedule of graduated increases in permitted tons per day. Increases will occur as needed and will coincide with needs such as the closure of other regional landfills at Miramar (2019) and Otay (2027). This document assumes that in 2012, permitted tons per day will increase to 6,800; in 2020 to 9,000; and in 2026, to a maximum of 12,000 tons per day.
- iv. The 2005 Siting Element assumed that the Gregory Canyon Landfill would be operational in 2006. To date (December 2010) additional environmental analysis is being done pursuant to the National Environmental Policy Act for federal purposes, and the project is proceeding through applicable State permitting processes. Gregory Canyon has been included as part of the capacity analysis. It should also be noted that the contact information for this proposed landfill has changed to the following:

Facility Name: Gregory Canyon Landfill

Facility Owner:
Gregory Canyon Limited, LLC

Attention: James Simmons, Authorized Representative
160 Industrial Street, Suite 200
San Marcos, CA 92078

Facility Operator:
Gregory Canyon Limited, LLC
Attention: James Simmons, Authorized Representative
160 Industrial Street, Suite 200
San Marcos, CA 92078

- v. Considering the Miramar and Sycamore expansions, Gregory Canyon and closure of Otay 2027, the County of San Diego would have sufficient landfill space beyond 2028.

The following item should be noted as an update to the Siting Element approved by the CalRecycle in 2005.

- vi. With the passing of Proposition A during the June 8th, 2010 election San Diego County voters approved the East Otay Mesa Recycling Collection Center and Landfill. The main features of the East Otay Mesa site include a recycling collection center, a lined landfill, a scale area, a facilities and operation area, a borrow and stockpile area, a leachate collection system, chipping and grinding area, and storm-water retention facilities.

The passing of Proposition A required that the San Diego County Integrated Waste Management Plan be updated to include the East Otay Mesa Recycling Center and Landfill as a future disposal site. The Siting Element currently lists the East Otay facility in Chapter 7 as a "Tentatively Reserved Solid Waste Disposal Facility."

The East Otay Mesa site is updated from "Tentatively Reserved" to a "Proposed New Disposal Facility." This language is added to reflect that effective change that was made by the voters.

d. Summary Plan

There have been no significant information changes that would warrant amendment of the countywide Summary Plan.

2. Statement regarding whether Programs are Meeting their Goals

The programs have been reviewed, and are meeting their goals.

Section 4.6 - CHANGES IN AVAILABLE MARKETS FOR RECYCLABLE MATERIALS

A survey of San Diego recycling markets was distributed to local recycling companies. Overall, recycling markets for the region have improved and market status does not warrant a revision of the planning documents. Responses of the recyclers' survey were as follows:

San Diego County, like much of the country, experienced a severe decrease in all available recycling markets starting in fall 2008. This decrease was due to a drop in the economy and a decline in demand from overseas buyers. However, as of March, 2010 the markets have stabilized and are improved from the CIWMP submitted in 2005 (which used 2002 data). When local recycling companies were asked to rate the recycling markets as either "Excellent," "Good," "Average," "Fair," or "Poor," they responded that markets were "Good." More specifically,

aluminum, paper, cardboard, plastic, and metal have all increased in value since 2002. Glass prices have worsened.

The most limiting factor to recycling markets is lower volumes due to the worsened economy. Recycling markets in San Diego are generally strong.

Section 4.7 - CHANGES IN THE IMPLEMENTATION SCHEDULE

No implementation schedule is warranted.

SECTION 5.0 - OTHER ISSUES AND SUPPLEMENTARY INFORMATION

APPENDICES:

- A. Letters from jurisdictions reflecting no need for document updates.

SECTION 6.0 - ANNUAL REPORT REVIEW

Annual Reports for each jurisdiction in the county have been reviewed, specifically those sections that address the adequacy of the CIWMP or RAIWMP elements. No jurisdictions reported the need to revise one or more of these planning documents. See APPENDIX A for letters from jurisdictions confirming this statement.

SECTION 7.0 - REVISION SCHEDULE (if required) – N/A

Appendix D

County of San Diego Agenda Item: Landfill Initiative

Measure: Title and Summary



COUNTY OF SAN DIEGO

AGENDA ITEM

BOARD OF SUPERVISORS

GREG COX
First District

DIANNE JACOB
Second District

PAM SLATER-PRICE
Third District

RON ROBERTS
Fourth District

BILL HORN
Fifth District

11

DATE: October 13, 2009

TO: Board of Supervisors

SUBJECT: CERTIFICATION OF PETITION REGARDING EAST OTAY MESA
RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE
(District: All)

SUMMARY:

Overview

The "East Otay Mesa Recycling Collection Center and Landfill Ordinance" was filed with the Registrar of Voters on August 18, 2009. The Registrar examined the petition in accordance with the California Election Code, found it contains a sufficient number of valid signatures, and is now certifying the results to the Board of Supervisors. The Board has the following options in accordance with State law: 1) to adopt the ordinance; 2) to submit the measure to the voters at the June 8, 2010 Election; or, 3) to order an impact report to be prepared and presented to the Board, from which the Initiative must either be adopted or be placed on the ballot.

Recommendation(s)

CHIEF ADMINISTRATIVE OFFICER

1. Receive the certification from the Registrar of Voters that the petition contains a sufficient number of valid signatures.
2. Direct staff to prepare an impact report pursuant to Elections Code Section 9111, and present it to the Board on November 3, 2009 with a recommendation to either adopt the ordinance or provide for the necessary resolution calling for an election to place the initiative providing for the siting of a new recycling center and class III solid waste landfill in the East Otay Mesa area of unincorporated San Diego County on the June 8, 2010 ballot.

Fiscal Impact

Preparation of the impact report will require an estimated 50 hours of staff time involving a number of County departments, the costs for which can be managed within existing budgeted resources. Placing this initiative measure on the June 8, 2010 ballot would result in an increase of approximately \$300,000 in the County's share of costs

SUBJECT: CERTIFICATION OF PETITION REGARDING EAST OTAY MESA RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE (District: All)

for this election and no additional staff years. Funds for this request are included in the Registrar of Voters' Fiscal Year 2009-11 Adopted Operational Plan. The funding source is General Purpose Revenue.

Business Impact Statement

N/A

Advisory Board Statement

N/A

BACKGROUND:

The initiative petition to provide for the siting of a new recycling center and class III solid waste landfill in the East Otay Mesa area of unincorporated San Diego County was filed by the proponents with the Registrar of Voters on August 18, 2009. County Counsel had previously prepared a Title and Summary to be included on the petition that was circulated for signatures (Attachment A). The summary prepared by County Counsel includes the chief purpose and points of the measure.

The Registrar of Voters verified the petition signatures using a statistical sample in accordance with California Elections Code Section 9115. It was determined that the number of valid signatures required for qualification was sufficient. The results of this verification have been filed with the Clerk of the Board of Supervisors (Attachment B).

The Board now has the following options in accordance with California Elections Code Section 9118:

- Option One: Adopt the ordinance without alteration.
- Option Two: Submit the measure, without alteration, to the voters at the next Statewide election, which would be June 8, 2010.
- Option Three: Order an impact report pursuant to California Elections Code Section 9111. Such a report must be returned to the Board of Supervisors within the time you prescribe, but no later than 30 days following the October 13, 2009 certification of results to your Board, which is November 12, 2009.

Staff is recommending that the Board direct them to prepare a report on the impacts of the proposed initiative to enable the Board to make an informed decision as to whether to adopt the proposed initiative by ordinance or to place it on the June 8, 2010 ballot.

Linkage to the County of San Diego Strategic Plan

SUBJECT: CERTIFICATION OF PETITION REGARDING EAST OTAY MESA
RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE
(District: All)

COUNTY OF SAN DIEGO
BOARD OF SUPERVISORS

2009 OCT 5 AM 11 37

AGENDA ITEM INFORMATION SHEET J. PASTUSZKA
CLERK OF THE BOARD
OF SUPERVISORS

CONCURRENCE(S)

- COUNTY COUNSEL REVIEW** Yes No
Written Disclosure per County Charter Yes No
Section 1000.1 Required
- GROUP/AGENCY FINANCE DIRECTOR** Yes N/A
H. Monette for Kay Holton
- CHIEF FINANCIAL OFFICER** Yes N/A
Requires Four Votes Yes No
Joel Pekar
- GROUP/AGENCY INFORMATION TECHNOLOGY DIRECTOR** Yes N/A
- COUNTY TECHNOLOGY OFFICE** Yes N/A
- DEPARTMENT OF HUMAN RESOURCES** Yes N/A

Other Concurrence(s): Land Use and Environmental Group *ed*

ORIGINATING DEPARTMENT: Registrar of Voters

CONTACT PERSON(S):

Michael Vu, Assistant Registrar of Voters

Name	Name
(858) 694-3402	
Phone	Phone
(858) 694-8888	
Fax	Fax
O-34	
Mail Station	Mail Station
michael.vu@sdcounty.ca.gov	
E-mail	E-mail

AUTHORIZED REPRESENTATIVE:

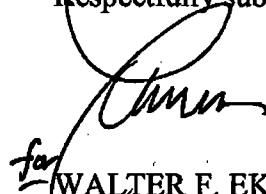
Deborah Seiler

DEBORAH SEILER
Registrar of Voters

SUBJECT: CERTIFICATION OF PETITION REGARDING EAST OTAY MESA
RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE
(District: All)

Today's proposed action to receive the certification results of the East Otay Mesa Recycling Collection Center and Landfill Initiative Ordinance and to act on the initiative ordinance pursuant to Election Code 9118 supports the Environment Strategic Initiative in the County of San Diego's 2009-2014 Strategic Plan by following land use strategies that balance all the needs of County residents.

Respectfully submitted,



for WALTER F. EKARD
Chief Administrative Officer

ATTACHMENT(S)

- A - Title and Summary
- B - Certification of Results

SUBJECT: CERTIFICATION OF PETITION REGARDING EAST OTAY MESA
RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE
(District: All)

AGENDA ITEM INFORMATION SHEET
(continued)

PREVIOUS RELEVANT BOARD ACTIONS:

N/A

BOARD POLICIES APPLICABLE:

N/A

BOARD POLICY STATEMENTS:

N/A

**ORACLE AWARD NUMBER(S) AND CONTRACT AND/OR REQUISITION
NUMBER(S):**

N/A

INITIATIVE MEASURE TITLE AND SUMMARY

Prepared by the Office of County Counsel

EAST OTAY MESA RECYCLING COLLECTION
CENTER AND LANDFILL ORDINANCE

This measure states its intent to provide for the siting of a new recycling center and class III solid waste landfill in the East Otay Mesa area of unincorporated San Diego County, approximately 2 miles east of the Siempre Viva Road exit from Interstate 905, one quarter mile from Loop Road and east of planned State Route 11. The facility would occupy approximately 340 acres of a 450 acre site (leaving 110 acres undeveloped), and would include a recycling collection center, lined landfill, scale area, facilities and operation area (including a visitors' center, office building, maintenance office, shop and yard, and a landfill gas collection and recovery system), borrow and stockpile area, leachate collection system, chipping and grinding area, storm-water retention facilities, and a new access route from Loop Road. The facility would be open for the receipt of refuse a minimum of nine hours a day, six days a week, excepting holidays.

The measure would amend the County General Plan and all sub-regional and community plans which apply to the East Otay Mesa site, to designate the site as Public/Semi-Public Lands with a Solid Waste Facility Designator. It would also amend the County Zoning Ordinance, to change the site's zoning from S88 and S90 to Solid Waste Facility. It would also state the County's approval of an amendment to the San Diego County Integrated Waste Management Plan to add the site as a recycling and disposal site.

The measure would state that the facility is required to be constructed and operated in accordance with applicable local regulations in effect on the date the measure is approved, and applicable federal and state regulations. It requires that consultation, permits and approvals be obtained as required under identified federal, state, regional and local requirements, including environmental review required for those approvals. Mitigation measures would be adopted, including a landfill gas system and protections relating to water quality, earthquakes, air quality, noise, odor, dust, biological resources, visual impacts and cultural impacts.

The measure states that the site shall remain private land unless purchased or condemned by a public agency. The measure contains findings regarding the need for new recycling and solid waste disposal facilities to serve San Diego County. The measure may be amended or repealed only by majority of voters voting at an election, and contains various additional provisions relating to its interpretation and implementation.



County of San Diego

REGISTRAR OF VOTERS

5201 Ruffin Road, Suite I, San Diego, California 92123-1693

DEBORAH SEILER
Registrar of Voters

MICHAEL VU
Assistant Registrar

Office: (858) 565-5800
Fax: (858) 694-2955
TDD: (858) 694-3441
Toll Free: (800) 696-0136

September 14, 2009

David Wick, Proponent
5440 Morehouse Drive, Suite 4000
San Diego, CA 92121

Re: East Otay Mesa Recycling Collection Center and Landfill Ordinance

The "EAST OTAY MESA RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE" was filed with the Registrar of Voters on August 18, 2009. In accordance with the Secretary of State guidelines, the Registrar of Voters conducted a verification of 3 percent of the signatures selected at random from the petition in accordance with California Elections Code Section 9115. Based on the results of the random sample, the number of projected valid signatures on the petition is 88,461. This number is above 110% of the valid signatures required for qualification and, therefore, the petition is determined to be **QUALIFIED**.

CERTIFICATION OF RESULTS:

- Number of sections submitted.....4,318
- Number of signatures submitted 125,843
- Number of signatures verified (3% of 125,843)3,775
- Number of signatures found not to be valid (includes 10 duplicate) .798
- Number of signatures found to be valid.....2,977
- Number of signatures required for qualification.....77,837
- Number of projected valid signatures88,461

If you have any questions, please contact me at (858) 694-3401.

Sincerely,

DEBORAH SEILER
Registrar of Voters

FILE COPY

cc: Board of Supervisors
1600 Pacific Highway, #335
San Diego, CA 92101-2470

INITIATIVE MEASURE TITLE AND SUMMARY
Prepared by the Office of County Counsel

**EAST OTAY MESA RECYCLING COLLECTION
CENTER AND LANDFILL ORDINANCE**

This measure states its intent to provide for the siting of a new recycling center and class III solid waste landfill in the East Otay Mesa area of unincorporated San Diego County, approximately 2 miles east of the Siempre Viva Road exit from Interstate 905, one quarter mile from Loop Road and east of planned State Route 11. The facility would occupy approximately 340 acres of a 450 acre site (leaving 110 acres undeveloped), and would include a recycling collection center, lined landfill, scale area, facilities and operation area (including a visitors' center, office building, maintenance office, shop and yard, and a landfill gas collection and recovery system), borrow and stockpile area, leachate collection system, chipping and grinding area, storm-water retention facilities, and a new access route from Loop Road. The facility would be open for the receipt of refuse a minimum of nine hours a day, six days a week, excepting holidays.

The measure would amend the County General Plan and all sub-regional and community plans which apply to the East Otay Mesa site, to designate the site as Public/Semi-Public Lands with a Solid Waste Facility Designator. It would also amend the County Zoning Ordinance, to change the site's zoning from S88 and S90 to Solid Waste Facility. It would also state the County's approval of an amendment to the San Diego County Integrated Waste Management Plan to add the site as a recycling and disposal site.

The measure would state that the facility is required to be constructed and operated in accordance with applicable local regulations in effect on the date the measure is approved, and applicable federal and state regulations. It requires that consultation, permits and approvals be obtained as required under identified federal, state, regional and local requirements, including environmental review required for those approvals. Mitigation measures would be adopted, including a landfill gas system and protections relating to water quality, earthquakes, air quality, noise, odor, dust, biological resources, visual impacts and cultural impacts.

The measure states that the site shall remain private land unless purchased or condemned by a public agency. The measure contains findings regarding the need for new recycling and solid waste disposal facilities to serve San Diego County. The measure may be amended or repealed only by majority of voters voting at an election, and contains various additional provisions relating to its interpretation and implementation.

COUNTY OF SAN DIEGO

Proposition ___

(This proposition will appear on the ballot in the following form.)

PROP ___ EAST OTAY MESA RECYCLING COLLECTION CENTER AND LANDFILL ORDINANCE.

Shall the East Otay Mesa Recycling Collection Center and Landfill initiative Ordinance be adopted?

EAST OTAY MESA RECYCLING COLLECTION CENTER AND LANDFILL INITIATIVE

The People of San Diego County Do Hereby Ordain as Follows:

SECTION 1. INTENT.

It is the intent of this initiative measure:

- A. To provide for the siting of a new recycling collection center and class III solid waste landfill to allow the residents and businesses in San Diego County to recycle and dispose of their solid waste in an environmentally sound and economically competitive manner.
- B. To ensure that the recycling collection center and landfill are designed, constructed, and operated in a safe and efficient manner by requiring full compliance with all environmental laws and regulations. The Project will be monitored during its life on a regular basis by regulatory agencies including, but not limited to, the Integrated Waste Management Board, the San Diego County Air Pollution Control District and the Regional Water Quality Control Board.
- C. To amend the General Plan, Zoning Ordinance and other ordinances and policies of the County of San Diego to allow the construction and operation of a recycling collection center and class III solid waste landfill on approximately 450 acres of land within the East Otay Mesa area in the unincorporated area of San Diego County located approximately 2 miles east of the Siempre Viva Road exit from Interstate 905 and one-quarter mile from Loop Road and east of planned State Route 11. The general location of the East Otay Mesa site is shown on Figure 1 attached to this measure.
- D. To amend the San Diego County Integrated Waste Management Plan and its elements and amendments to add the East Otay Mesa Recycling Center and Landfill and facility as a recycling and disposal site.

SECTION 2. FINDINGS AND PURPOSE.

- A. The 2005 San Diego County Integrated Waste Management Plan, County Siting Element has documented the critical need for new recycling and solid waste facilities to serve the growing San Diego County population.
- B. The Otay Annex landfill is the only remaining landfill serving southern San Diego County which includes the cities of San Diego, Chula Vista, Imperial Beach, National City, and Coronado, and the unincorporated areas of southern San Diego County.

- C. There is limited capacity in existing landfills.
- D. Many of the San Diego County landfills have been successfully operated by a private party for the County of San Diego.
- E. The East Otay Mesa site is located in a sparsely populated area of San Diego County. Approximately 110 acres of the site will remain undeveloped.
- F. The proposed recycling center and landfill in East Otay Mesa will be entitled, developed, and constructed at no cost to the taxpayer. Costs of operation will be charged to users.
- G. The voters hereby find and determine that the project will be compatible with other uses in the area and the County's General Plan for uses in the area upon implementation of the mitigation measures required by this measure.

SECTION 3. DESCRIPTION OF THE PROJECT.

The Project will include the following components:

A. General Description of the Project.

The recycling collection center and landfill will occupy approximately 340 acres of the East Otay Mesa site not including the approximately 110 acres which will remain undeveloped. The main features of the Project include a recycling collection center, a lined landfill, a scale area, a facilities and operation area, a borrow and stockpile area, a leachate collection system, chipping and grinding area, and storm-water retention facilities. The facilities and operation area will include a visitors' center, an office building, a maintenance office, a shop and yard, a fueling station, a storage area, a water tank truck wash and wash-water treatment area, a landfill gas collection and recovery system, and a leachate collection tank. The Project Proponent shall be entitled to adjust the size and location of solid waste operations and to alter the proposed facilities based on a detailed site plan to be submitted to the Integrated Waste Management Board for its review and approval as part of the solid waste facilities permit.

The recycling and solid waste facilities shall remain open for the receipt of refuse a minimum of nine (9) hours a day, six (6) days a week, excepting recognized federal, state and local holidays.

The Project's recycling and solid waste operations component shall include the receipt, handling, processing, and/or disposal of solid waste or recyclable materials; cover operations; site grading and/or excavation, including blasting and rock crushing; and heavy equipment operation. Other site activities will include the operation of gas and leachate collection and treatment systems, remedial activities required by a regulatory agency, maintenance within the maintenance yard, and other activities that will support recycling and solid waste operations.

At least five (5) days each week, a site clean-up team will inspect for, and clean up, all litter and illegal dumping which occurs on or adjacent to, the landfill access road and Loop Road. The clean up team shall consist of at least one truck with a minimum crew of two persons.

Trained, full-time personnel will be engaged exclusively and continuously in the inspection of incoming refuse loads for hazardous waste. These personnel shall be stationed at the working face of the landfill whenever the landfill is open to accept waste and shall inspect loads as they are tipped. Hazardous wastes encountered in this fashion shall be handled and disposed of in accordance with state regulations. The project will use recycled water from Otay Mesa Water District. The Project includes construction of a new access route from Loop Road.

B. Implementation.

Amendments to County General Plan.

Upon the effective date of this initiative, the land use element of the County General Plan and all sub-regional and community plans which apply to the East Otay Mesa site and any related maps shall be amended to designate the East Otay Mesa site Public/Semi-public lands with a Solid Waste Facility Designator. Notwithstanding the Public/Semi-public designation, the East Otay Mesa site shall remain private lands unless purchased or condemned by a public agency.

Amendment to County Zoning Ordinance.

Upon the effective date of this initiative, the County Zoning Ordinance shall be amended to change the Project site's current zoning from S88 and S90 to the zoning classification Solid Waste Facility ("SWF"). The SWF zoning classification shall be amended to allow the East Otay Mesa Recycling Collection Center and Landfill to be established.

Amendments to the San Diego County Integrated Waste Management Plan.

The San Diego County Integrated Waste Management Plan and its elements and amendments are hereby amended to add the East Otay Mesa Recycling Collection Center and Landfill facility as a recycling and disposal site and to meet the requirements of the California Integrated Waste Management Act of 1989 as amended. The approval of this initiative measure shall constitute approval pursuant to Public Resources Code Section 41760, and adoption pursuant to California Code of Regulations, Title 14, Section 18783, of this amendment to the Waste Management Plan.

Amendments to Other County Ordinances and Legislative Acts.

All other County ordinances, rules and regulations which constitute legislative acts shall be amended as necessary to accommodate the Project as set forth in this initiative.

Development Regulations.

The Project shall be constructed and operated in accordance with the permits and approvals described in Section 4 below, applicable local policies, rules and regulations, all as may be amended by implementation of this initiative, and applicable federal and state policies, rules and regulations.

SECTION 4. PERMITS.

To ensure that the Project is designed, constructed and operated in a safe and efficient manner, the Project shall be required to secure the following permits and approvals to the extent required by state or federal law:

A. Environmental Review.

The Project Proponent shall complete any environmental review required by federal or state law to secure the remaining permits and approvals.

B. Consultation with Advisory Council on Historic Preservation.

The Project Proponent shall consult with the Advisory Council on Historic Preservation in accordance with §106 of the National Historic Preservation Act.

C. U.S. Department of the Army Corps of Engineers.

The Project Proponent shall secure a permit relating to §404 of the Clean Water Act from the Army Corps of Engineers.

D. U.S. Fish & Wildlife Service.

The Project Proponent shall conduct a §7 consultation with the Department of Interior, U.S. Fish & Wildlife Service in compliance with the Endangered Species Act and shall coordinate the §404 permit with the U.S. Fish & Wildlife Service as required by federal law.

E. California Department of Fish and Game.

The Project Proponent shall secure a §1601 Streambed Alteration Agreement with the California Department of Fish & Game and any other required permits.

F. California State Water Resources Control Board.

The Project Proponent shall secure a National Pollutant Discharge Elimination System Permit, a Section 401 Water Quality Certification, and a Water Appropriation Permit.

G. Regional Water Quality Control Board.

The Project Proponent shall secure a Waste Discharge Permit from the Regional Water Quality Control Board.

H. California Integrated Waste Management Board.

The Project Proponent shall obtain a Solid Waste Facility Permit from the California Integrated Waste Management Board and from the local enforcement agency for the California Integrated Waste Management Board.

I. County of San Diego.

The Project Proponent shall secure a Grading Permit and a Building Permit from the County of San Diego.

J. San Diego Air Pollution Control District.

The Project Proponent shall secure all permits required by the San Diego Air Pollution Control District to construct and operate the solid waste facilities authorized by this measure.

K. Utility Services.

The Project Proponent shall comply with the requirements of local utility suppliers in securing electric, telephone, water and fire protection services. Sewer service will be provided by chemical toilets used by workers at the landfill. The Project Proponent will be required to provide the sewage disposal service, removing effluent once per week by pumper truck from the chemical toilets for treatment and disposal away from the site.

L. Law Enforcement.

The Project Proponent shall secure a blasting permit as necessary from the San Diego County Sheriff's Department.

M. Financial Guarantees.

The Project Proponent shall provide a closure and post-closure plan complying with federal and state law and shall provide bonds or other financial guarantees to ensure performance as required by federal and state law.

N. Other Permits and Approvals.

The Project Proponent shall secure all other permits and approvals as required by federal or state law.

SECTION 5. MITIGATION MEASURES.

To ensure that the Project is constructed and operated in a manner which minimizes its environmental impacts, the following mitigation measures are hereby adopted as a condition of voter approval of the Project:

A. Landfill Gas System.

The Project shall include a network of vertical extraction wells, lateral transmission pipes to a gas recovery facility, and perimeter gas monitoring probes. With this system the landfill gas will be extracted from the landfill and combusted in an enclosed flare.

B. Water Quality.

The Project shall comply with all requirements of the Regional Water Quality Control Board to ensure protection of surface and underground water quality.

C. Earthquakes.

All structures located at the East Otay Mesa site shall be designed by a qualified engineer to withstand the maximum probable earthquake to avoid potential impacts associated with earthquakes and ground shaking.

D. Air Quality.

Air quality impacts associated with the Project shall be mitigated by meeting all requirements imposed by the San Diego County Air Pollution Control District for the Authority to Construct and Authority to Operate permits.

E. Noise Abatement.

The Project Proponent shall prepare a Noise Abatement Plan to include:

1. Physical design provisions to ensure that ambient noise levels do not exceed 65 CNEL at the boundaries of the East Otay Mesa site;
2. Installation of landfill equipment and vehicles with noise suppressing equipment to assist in meeting the above restrictions;
3. Provisions for at least 24 hour in advance written notice of any blasting on-site to residents within a one-mile radius of the blast site; and,
4. Where ambient noise levels exceed 65 CNEL at the boundaries of the East Otay Mesa site, the Project Proponent shall retain a qualified noise expert to evaluate the noise level and recommend mitigation measures. These mitigation measures shall be implemented by the Project Proponent.

F. Odor Control.

To control odors on-site, the Project Proponent shall submit an Odor Control Plan to the San Diego County Air Pollution Control District for review and approval.

G. Dust Control Plan.

To control dust from Project operations, the Project Proponent shall submit a Dust Control Plan to the San Diego County Air Pollution Control District for review and approval.

H. Biological Impacts.

All sensitive species and habitat impacted by the Project shall be mitigated in accordance with requirements imposed by the United States Fish & Wildlife Service as part of the §7 consultation.

I. Visual Impacts.

In order to mitigate visual impacts associated with the Project, the Project Proponent shall employ extensive use of landscaping emphasizing native vegetation, and rounding/undulation of slopes on the refuse column and changes in slope angles. All landscaping shall be performed by a licensed landscape architect in the State of California. This licensed architect shall prepare a detailed landscape plan designed to minimize visual impact associated with the Project to the maximum feasible extent. The plan prepared by the licensed architect shall be implemented by the Project Proponent upon completion.

J. Cultural Impacts.

Impacts to Native American resources impacted by the Project shall be mitigated through the development of a Memorandum of Agreement between the Project Proponent and the appropriate regulatory agencies in accordance with §106 of the National Historic Preservation Act. To mitigate archaeological impacts caused by the Project, the Project Proponent shall retain a qualified archaeologist to investigate and recommend appropriate mitigation measures. These mitigation measures shall be implemented by the Project Proponent.

K. Additional Mitigation Measures.

Mitigation measures included as part of any subsequent environmental review of the Project shall be included as additional mitigation measures for the Project. The Project Proponent shall submit a mitigation and monitoring program that meets state and federal law to the Integrated Waste Management Board for review and approval as part of the solid waste facilities permit.

SECTION 6. COUNTY COOPERATION.

The County of San Diego shall cooperate with the Project Proponent wherever possible in issuing permits and approvals so that the Project can proceed in a timely fashion.

The County of San Diego is hereby authorized and directed to amend other elements of the General Plan, sub-regional plans, community plans, Zoning Ordinance, Waste Management Plan and other ordinances and any other legislative acts affected by this initiative as soon as possible and in the manner and time required by State Law to ensure consistency between this initiative and other elements of the County's General Plan, sub-regional and community plans, Zoning Ordinance and other County ordinances and policies.

SECTION 7. DEFINITIONS.

For the purpose of this measure, the following words and phrases shall have the following meanings:

- A. "Project Proponent" means the proposed operator of the facility or its assignee or authorized representatives.
- B. "East Otay Mesa site" means the approximately 450 acres of land located east of State Route 905 and approximately 2 miles east of the Siempre Viva Road exit from Interstate 905; one quarter mile east of Loop Road; one-quarter mile north of the International Border with Mexico; and west of planned State Route 11 occupying portions of Sections 28, 32, and 33 of Township 18 South Range 1 East of the San Bernardino Meridian.
- C. "Integrated Waste Management Board" means the State of California Integrated Waste Management Board.
- D. "Project" means the recycling collection center and landfill and associated structures and improvements as described in Section 3 of this initiative measure as may be subsequently modified by a detailed site plan submitted by Project Proponent to the Integrated Waste Management Board as part of the solid waste facilities permit.
- E. "Recycling collection center" means a facility for the buy-back of source separated materials but not the processing of mixed waste.

SECTION 8. PURCHASE BY PUBLIC AGENCY.

The East Otay Mesa site shall remain private land until purchased by a public agency or Joint Powers Authority for its fair market value. Nothing contained herein shall restrict the right of any public agency to exercise its eminent domain power as authorized by law to acquire the East Otay Mesa site.

SECTION 9. AMENDMENT OR REPEAL.

This measure may be amended or repealed only by a majority of the voters voting in an election thereon.

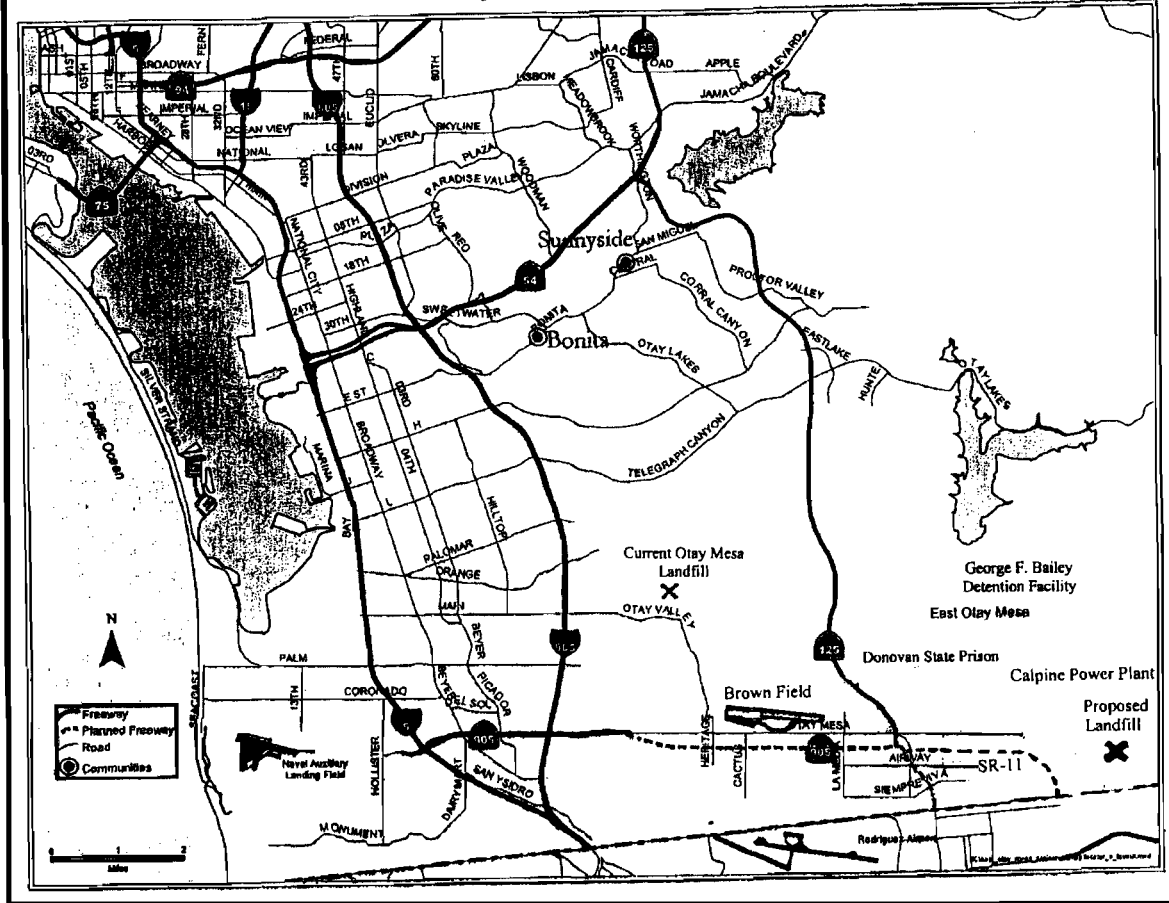
SECTION 10. INTERPRETATION AND SEVERABILITY.

This measure shall be interpreted so as to be consistent with all federal and state laws, rules and regulations. If any section, sub-section, sentence, clause, phrase, part or portion of this measure is held to be invalid or unconstitutional by a final judgment of court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this measure. The voters hereby declare that this measure and each section, sub-section, sentence, clause, phrase, part or portion thereof would have adopted or passed irrespective of the fact that any one or more sections, sub-sections, sentences, clauses, phrases, parts or portions are declared invalid or unconstitutional.

SECTION 11. CONSISTENCY WITH OTHER BALLOT MEASURES.

In the event that another ballot measure is placed on the same ballot as this measure purporting to deal with the same subject matter, and if both measures should pass, the voters expressly declare their intent that both measures shall be put into effect except to the extent that specific provisions of such measures are in direct conflict. In the event of such a direct conflict, the measure which obtained more votes will control as to the conflicting provisions only. The voters expressly declare this to be their intent, notwithstanding any language to the contrary in any other ballot measure.

Figure 1



Notice of Intention to Circulate Petition

Notice is hereby given by the persons whose names appear hereon of their intention to circulate the petition within the County of San Diego for the purpose of amending the General Plan, Zoning Ordinance and other ordinances and the policies of the County of San Diego to allow construction and operation of a recycling collection center and class III solid waste landfill on approximately 450 acres of land within the East Otay Mesa area; and to amend the San Diego County Integrated Waste Management Plan and its elements and amendments to add the East Otay Mesa Recycling Center and Landfill facility.

David Wick
Proponent

Appendix E

Data Collection Survey Forms

R3

**Gregory Canyon Landfill Assessment Research
Data Collection Form
(for surveyed cities/counties)**

R3

Name of Business or Organization:

Address:

Business or Organization Type:

City, State, Zip:

Contact Name & Title:

Contact Phone:

Contact FAX/E-Mail:

Date:

Number Times Contacted:	By Phone:	By Email:
	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>

1) Current population:

2) Projected growth:

3) Exclusive disposal agreement: Yes / No

4) CalRecycle current diversion rate:

5) ZW or other Waste Diversion goals:

Flow Control Agreement? Yes / No

Expires:

Facility(ies):

Extension of Flow Control Agreement?

Franchised Hauler(s) Name	Res/Com/RO	Contract Term	Tonnage				Recipient (Facilities)
			Disposal	Recycle	Green Waste	Other (List Type)	
Total:							

Additional Notes:

R3

Form 1b
Gregory Canyon Landfill Assessment Research
Data Collection Form
(for haulers/facilities)

R3

Name of Business or Organization: _____
 Address: _____
 Business or Organization Type: _____
 City, State, Zip: _____
 Contact Name & Title: _____
 Contact Phone: _____
 Contact FAX/E-Mail: _____

Date: _____
 Business or Organization Type: _____
 Number Times Contacted: _____

By Phone:	By Email:

1) Owner/Operator: _____
 2) Type of Facility: _____
 3) Permitted Capacity: _____
 4) Remaining Capacity: _____
 5) Plans for Expansion: _____
 Time Period: _____
 Conversion Factor (Tonnage to Cu. Yds.): _____

Close Date: _____
 Materials Accepted: _____

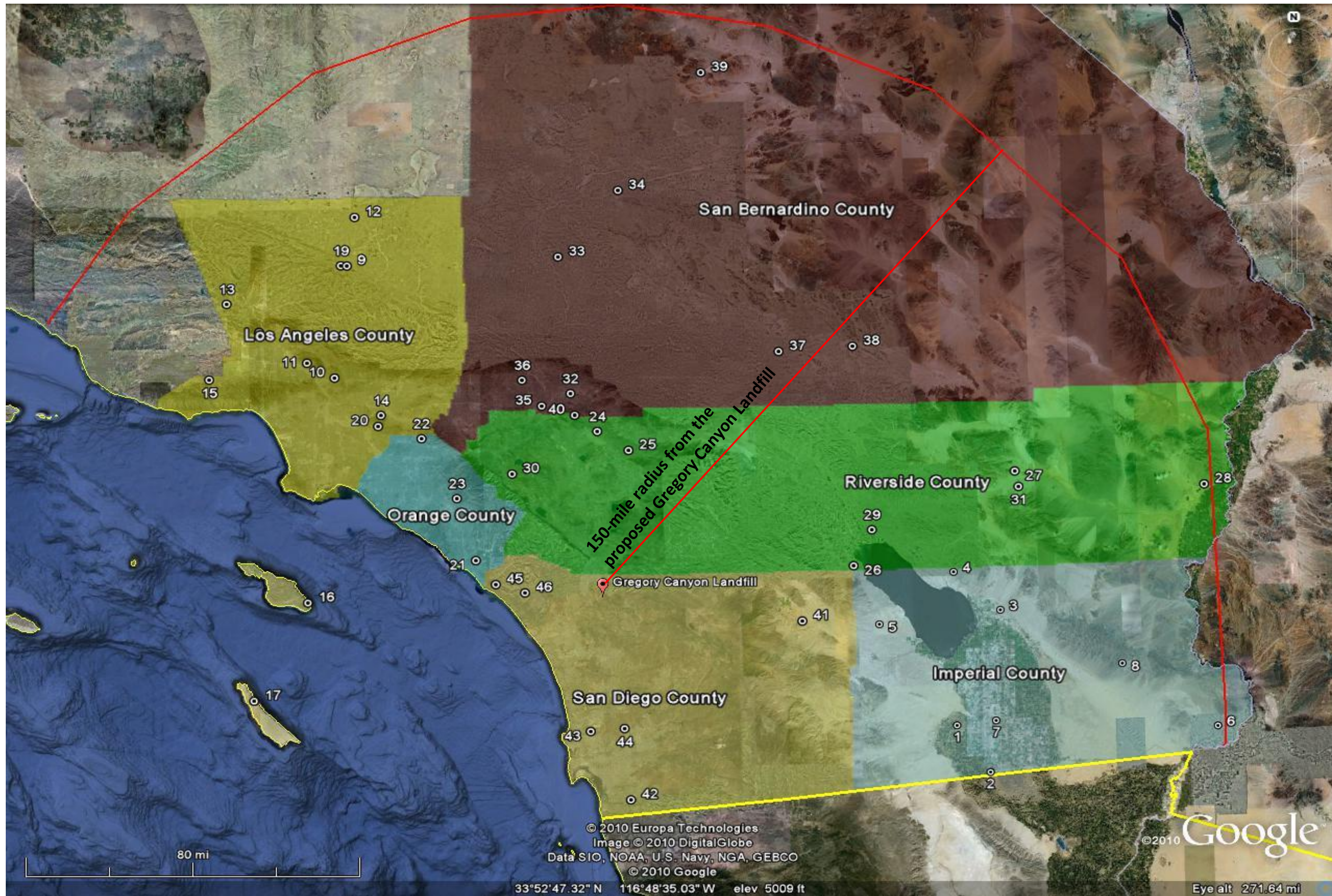
Jurisdictions/Cities Accepts From	Contract Term	Tonnage			
		Disposal	Recycle	Green Waste	Other (List Type)
Total:					

Additional Notes:

Appendix F

**Google Earth Map of Disposal Facilities
within the Waste Shed**

APPENDIX F
Disposal Facilities Within The Waste Shed



Facility Name	
Imperial County	
1	Imperial Solid Waste Site
2	Calexico Solid Waste Site
3	Niland Solid Waste Site
4	Hot Spa Solid Waste Site
5	Salton City Solid Waste Site
6	Picacho Cut And Fill Site
7	Allied Imperial Landfill
8	Mesquite Regional Landfill (Planned)
Los Angeles County	
9	Antelope Valley Public Landfill I
10	Scholl Canyon Sanitary Landfill
11	Burbank Landfill Site No. 3
12	Lancaster Landfill and Recycling Center
13	Chiquita Canyon Sanitary Landfill
14	Puente Hills Landfill
15	Calabasas Sanitary Landfill
16	Pebbly Beach (Avalon) Disposal Site
17	San Clemente Island Landfill
18	Sunshine Canyon City/County Landfill
19	Antelope Valley Public Landfill II
20	Savage Canyon Landfill
Orange County	
21	Prima Deshecha Sanitary Landfill
22	Olinda Alpha Sanitary Landfill
23	Frank R. Bowerman Sanitary LF
Riverside County	
24	Badlands Sanitary Landfill
25	Lamb Canyon Sanitary Landfill
26	Oasis Sanitary Landfill
27	Desert Center Landfill
28	Blythe Sanitary Landfill
29	Mecca Landfill II
30	El Sobrante Landfill
31	Eagle Mountain Landfill (Planned)
San Bernardino County	
32	California Street Landfill
33	Victorville Sanitary Landfill
34	Barstow Sanitary Landfill
35	Colton Sanitary Landfill
36	Mid-Valley Sanitary Landfill
37	Landers Sanitary Landfill
38	USMC - 29 Palms Disposal Facility
39	Fort Irwin Sanitary Landfill
40	San Timoteo Sanitary Landfill
San Diego County	
41	Borrego Landfill
42	Otay Landfill
43	West Miramar Sanitary Landfill
44	Sycamore Sanitary Landfill
45	San Onofre Landfill
46	Las Pulgas Landfill

R3

Appendix G

Disposal Facility Information Table

Appendix G

Landfills Within Waste Shed 2007-2009 Landfill Summary Tonnage Report and Remaining Disposal Capacities as of December 2010

Site Name	2007 Tons Accepted	2008 Tons Accepted	2009 Tons Accepted	2007-2009 3 Year Average Tonnage Disposed	2007-2009 3 Year Average Cubic Yards* Disposed	Throughput (Tons/day)	Estimated Remaining Disposal Capacity as of 12/13/2010 (Tons)	Close Date (Estimated)
Imperial County								
1 Imperial Solid Waste Site	989	1,911	1,719	1,540	3,079	207	85,777	9/1/2015
2 Calexico Solid Waste Site	1,682	2,884	2,243	2,270	4,539	150	556,550	7/31/2071
Palo Verde Solid Waste Site	769	0	0	256	513	x	-	x
3 Niland Solid Waste Site	788	898	1,041	909	1,818	55	18,391	6/1/2040
4 Hot Spa Solid Waste Site	285	132	220	212	425	10	27,687	4/1/2036
5 Salton City Solid Waste Site	180	0	1,312	497	995	50	172,853	12/31/2017
6 Picacho Cut And Fill Site	825	607	706	713	1,425	15	34,947	1/1/2000**
7 Allied Imperial Landfill	182,005	156,878	140,782	159,888	319,777	1,135	470,988	3/1/2012
8 Mesquite Regional Landfill	0	0	0	0	-	20,000	600,000,000	12/31/2097
Total:	187,523	163,310	148,023	166,285	332,571	21,622	601,367,191	
Los Angeles County								
9 Antelope Valley Public Landfill I	76,550	49,726	0	42,092	84,184	1,400	1,110,244	7/1/1999**
10 Scholl Canyon Sanitary Landfill	400,233	337,676	257,406	331,772	663,543	3,400	5,386,457	12/31/2024
11 Burbank Landfill Site No. 3	38,094	37,850	37,712	37,885	75,771	240	2,402,191	1/1/2053
12 Lancaster Landfill and Recycling	417,076	356,075	253,095	342,082	684,164	1,700	8,176,042	8/2/2012
13 Chiquita Canyon Sanitary	1,543,085	1,504,471	687,713	1,245,090	2,490,179	6,000	9,669,641	11/24/2019
14 Puente Hills Landfill	3,756,718	3,149,907	2,638,241	3,181,622	6,363,244	13,200	14,418,378	10/31/2013
15 Calabasas Sanitary Landfill	462,837	369,252	271,476	367,855	735,710	3,500	8,314,290	9/30/2025
16 Pebbly Beach (Avalon) Disposal	3,213	3,263	3,199	3,225	6,450	49	39,150	1/1/2020
17 San Clemente Island Landfill	857	162	0	340	679	10	101,851	1/1/2032
Sunshine Canyon SLF County	1,166,889	1,176,690	737,243	1,026,941	2,053,881	x	-	x
18 Sunshine Canyon City/County	411,382	671,358	1,616,325	899,688	1,799,377	12,100	53,450,935	12/31/2037
19 Antelope Valley Public Landfill II	276,793	255,707	266,742	266,414	532,828	1,800	1,705,274	1/1/2008**
20 Savage Canyon Landfill	79,693	78,859	75,354	77,969	155,937	350	4,603,683	12/31/2048
Sunshine Canyon City Landfill	213,293	0	0	71,098	142,195	x	-	x
Bradley Landfill West And West	177,676	0	0	59,225	118,451	x	-	x
Total:	9,024,389	7,990,996	6,844,506	7,953,297	15,906,594	43,749	109,378,135	
Orange County								
21 Prima Deshecha Sanitary	584,815	521,090	476,731	527,545	1,055,091	4,000	41,054,673	12/31/2067
22 Olinda Alpha Sanitary Landfill	1,874,594	1,603,342	1,706,924	1,728,287	3,456,573	8,000	10,647,758	12/31/2013
23 Frank R. Bowerman Sanitary LF	2,059,859	1,886,256	1,440,108	1,795,408	3,590,815	8,500	22,524,305	12/31/2022
Total:	4,519,268	4,010,688	3,623,763	4,051,240	8,102,479	20,500	74,226,736	
Riverside County								
24 Badlands Sanitary Landfill	619,969	476,408	435,379	510,585	1,021,171	4,000	7,185,881	1/1/2016
25 Lamb Canyon Sanitary Landfill	633,785	632,203	548,837	604,942	1,209,883	3,000	8,872,558	4/30/2021
26 Oasis Sanitary Landfill	1,222	1,474	1,345	1,347	2,694	400	68,064	10/31/2186
27 Desert Center Landfill	17	16	13	15	31	60	11,562	1/1/2011
28 Blythe Sanitary Landfill	21,444	16,895	15,741	18,027	36,053	400	1,072,463	5/31/2034
29 Mecca Landfill II	1,220	5	0	408	817	400	15,760	1/1/2007**
30 El Sobrante Landfill	2,173,216	2,110,066	1,889,484	2,057,589	4,115,177	16,054	70,707,411	1/1/2045
Total:	3,450,873	3,237,067	2,890,799	3,192,913	6,385,826	44,314	87,933,699	
San Bernardino County								
32 California Street Landfill	56,336	55,525	65,330	59,064	118,127	829	3,104,682	1/1/2042
33 Victorville Sanitary Landfill	325,139	286,710	258,358	290,069	580,138	3,000	40,464,931	10/1/2047
34 Barstow Sanitary Landfill	60,453	66,028	62,666	63,049	126,098	1,500	273,054	5/1/2071
35 Colton Sanitary Landfill	208,362	176,721	151,616	178,900	357,799	3,100	1,171,100	1/1/2017
36 Mid-Valley Sanitary Landfill	771,699	731,706	529,533	677,646	1,355,292	7,500	33,082,354	4/1/2033
37 Landers Sanitary Landfill	94,881	58,374	47,396	66,884	133,767	1,200	315,665	1/1/2013
38 USMC - 29 Palms Disposal	8,631	7,917	8,483	8,344	16,687	100	5,385,469	1/1/2076
39 Fort Irwin Sanitary Landfill	8,230	7,796	0	5,342	10,684	100	9,446,233	1/1/2405
40 San Timoteo Sanitary Landfill	186,598	144,423	130,879	153,967	307,933	1,000	5,218,100	5/1/2016
Total:	1,720,329	1,535,200	1,254,261	1,503,263	3,006,527	18,329	98,461,588	
San Diego County								
Ramona Landfill	60,027	75,101	32,061	55,730	111,459	x	x	Inactive
41 Borrego Landfill	8,532	8,822	6,688	8,014	16,028	50	231,404	10/31/2030
42 Otay Landfill	1,359,338	1,275,077	1,190,062	1,274,826	2,549,651	5,830	16,520,263	4/30/2021
43 West Miramar Sanitary Landfill	1,248,122	1,073,127	904,404	1,075,218	2,150,435	8,000	5,010,847	1/31/2019
44 Sycamore Sanitary Landfill	987,078	889,443	826,153	900,891	1,801,783	3,965	20,090,649	12/31/2031
45 San Onofre Landfill	97	639	1,017	584	1,169	50	621,909	11/30/2257
46 Las Pulgas Landfill	31,238	33,397	31,235	31,957	63,913	400	5,020,030	3/31/2047
Total:	3,694,432	3,355,606	2,991,620	3,347,219	6,694,439	18,295	47,495,101	
Grand Total:	22,596,814	20,292,867	17,752,972	20,214,218	40,428,435	166,809	1,018,862,450	

Note: Facilities marked in RED are either no longer permitted or active, but are included in this table to show tons accepted for a given year.

Note: All projections are calculations based on 3 year average (2007-2009) and have not been adjusted for changes in disposal, diversion or population. All projections and data herein are subject to change as more up-to-date data is made available. All base data herein has been gathered from CalRecycle.

* Conversion factor of 1000 pounds (1/2 ton) to 1 Cubic Yard has been corroborated through correspondence with landfill facilities as well as CalRecycle staff

** Closure dates are estimated on the CalRecycle Website as of most recent permit renewal, therefore some closure dates have not been updated because of litigation or special circumstances (Per Megan Fisher of CalRecycle)

Note: Numbers on left-hand side can be used to identify location of facility in APPENDIX F

Appendix H

Data Collection Methodology

APPENDIX H

Additional Data Collection Methodology

SWIS Database

To gather information on each of the 45 landfill facilities within the Waste Shed, the CalRecycle SWIS database was utilized. As defined on the CalRecycle website:

“The Solid Waste Information System (SWIS) database contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. For each facility, the database contains information about location, owner, operator, facility type, regulatory and operational status, authorized waste types, local enforcement agency and inspection and enforcement records.”

CalRecycle offers the SWIS database in a two-megabyte Microsoft Excel file, which was used to consolidate much of the information required to carry out the Needs Analysis. The consolidated file includes twenty-four categories, including but not limited to:

- Facility name;
- Facility category (i.e. disposal, composting, transfer/processing, etc.);
- Materials accepted;
- Permitted capacity;
- Remaining capacity;
- Estimated close date;
- Facility Owner; and
- Facility Operator¹.

Each facility in the SWIS database is assigned a SWIS number that is unique to that facility (facilities may perform more than one activity at each site, therefore one SWIS number may account for a disposal facility and a composting facility). The SWIS file downloaded from the CalRecycle website is separated into three

¹ Some information is not up-to-date on the CalRecycle website and the downloaded SWIS file due to permit turnover time. Permit renewal or updates can take up to five years or more because of litigation or special circumstances (Per correspondence Megan Fisher, Integrated Waste Management Specialist, CalRecycle).

Gregory Canyon Landfill Needs Assessment

tabs, entitled “Owner”, “Unit,” and “Site,” each of which contains respective information on every facility in the SWIS database. By using the Filter and Sort functions in Excel, we isolated the facilities within the six counties that comprise the Waste Shed were isolated and the information was consolidated into a new Excel file. Based on information in the consolidated SWIS file, the following items were created:

- Itemized data collection forms for each landfill facility (including owner, operator, and contact information) that were used to conduct disposal facility surveys (APPENDIX E);
- Google Earth maps showing the exact latitude and longitude of each landfill facility (APPENDIX F); and
- Detailed table of all landfill facilities (APPENDIX G).

The consolidated SWIS file is separated into six tabs, one for each county, and includes all facility types (i.e. Disposal, Transfer-Processing, Composting, etc.). The focus of this Needs Assessment, however, is in landfill facilities; therefore, a landfill information table has been provided in APPENDIX G.

California Waste Stream Profiles

The California Waste Stream Profiles (CWSP) database on the CalRecycle website contains summaries of county, jurisdiction, and facility waste streams. Counties contain solid waste jurisdictions that act as reporting entities to CalRecycle. Each solid waste jurisdiction, county and landfill facility must report the following information to CalRecycle on a quarterly basis:

For counties, CWSP provides:

- Contact information;
- Solid waste jurisdictions;
- Cities/jurisdictions located within county;
- Landfill facilities located within county; and
- Landfill facilities used by county.

For cities, CWSP provides:

- Contact information;
- Diversion rates up to 2006, and preliminary rates for 2007-2009;
- Diversion and solid waste program information;
- Amount and classification of disposal; and
- Landfill facilities located within jurisdiction.

For active landfill facilities, CWSP provides:

- Contact information;

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Gregory Canyon Landfill Needs Assessment

- Hours of operation (used to calculate annual throughput); and
- LEA contact information.

Disposal Reporting System (DRS)

CalRecycle also provides the DRS, which is defined as:

“Disposal Reporting System (DRS) reports are based on information reported by permitted facility operators and compiled by county/regional agency disposal reporting coordinators. CalRecycle staff enters this data into the DRS database, triple checks the entry to ensure it matches the tonnage submitted by each county, and then releases the finalized data in yearly increments. Only finalized data are shown in these reports.”

The DRS reports are categorized into waste flow by origin and waste flow by destination reports, the majority of which can be downloaded in a Microsoft Excel format. Using the information from the DRS database, tables consisting of the following information were created:

- Single- and multi-year county-wide disposal tonnage by origin;
- Single- and multi-year disposal tonnage by destination landfill facility; and
- Jurisdiction disposal by landfill facility (where each jurisdiction disposed of their waste) from 1999-2009.

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Appendix I

Population Projections

APPENDIX I

Imperial County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Tons)
Imperial County									
Imperial Valley Resource Management Agency*	202,270	247,028	276,030	297,648	312,316	320,448	344,084	367,719	237,080
Total:	202,270	247,028	276,030	297,648	312,316	320,448	344,084	367,719	237,080
<p>Note: All population data between 2010 and 2035 are projected estimates from the Southern California Association of Governments (SCAG). Estimates are based on fertility, mortality, and migration for each of four ethnic groups within three population classes (residents, domestic migrants, international migrants). Projected population data for the years 2040 and 2045 are based on the average difference in population between projection years 2010 through 2035.</p> <p>*The Imperial Valley Resource Management Agency encompasses all jurisdictions within Imperial County. Tonnage data is not available for the individual cities, and is therefore consolidated into one category.</p>									

APPENDIX I

Los Angeles County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Tons)
Los Angeles County									
Agoura Hills	23,347	23,357	23,400	23,440	23,472	23,502	23,533	23,564	24,497
Alhambra	90,813	93,115	94,852	96,602	98,319	99,952	101,780	103,608	49,822
Arcadia	58,158	59,674	61,265	62,803	64,287	65,704	67,213	68,722	52,867
Avalon	3,637	3,971	4,208	4,474	4,721	4,959	5,223	5,488	3,387
Azusa	49,174	51,003	52,372	53,784	55,148	56,460	57,917	59,374	48,007
Baldwin Park	82,767	84,025	85,399	86,722	87,995	89,212	90,501	91,790	55,378
Bell	39,147	39,290	39,490	39,679	39,858	40,028	40,204	40,380	24,656
Bell Gardens	46,567	46,810	47,120	47,414	47,693	47,958	48,236	48,514	37,988
Bellflower	79,656	81,551	83,551	85,483	87,347	89,130	91,025	92,920	38,993
Bradbury	993	1,031	1,071	1,109	1,147	1,182	1,220	1,258	3,854
Burbank	112,103	116,430	120,890	125,213	129,390	133,391	137,649	141,906	106,812
Calabasas	23,750	24,813	25,701	26,700	27,603	28,472	29,416	30,361	60,067
Carson	101,507	104,233	107,089	109,850	112,512	115,059	117,769	120,480	254,729
Cerritos	55,184	55,270	55,438	55,591	55,731	55,861	55,996	56,132	55,430
Claremont	37,356	37,896	38,490	39,061	39,609	40,134	40,690	41,245	28,119
Commerce	13,524	13,539	13,573	13,606	13,637	13,667	13,696	13,724	130,516
Compton	99,522	99,603	99,828	100,038	100,246	100,451	100,637	100,823	106,834
Covina	50,732	53,503	55,628	57,854	59,977	62,008	64,263	66,518	46,033
Cudahy	26,558	27,199	27,875	28,528	29,160	29,765	30,406	31,048	17,885
Culver	41,081	41,258	41,494	41,718	41,929	42,128	42,337	42,547	55,761
Diamond Bar	61,041	62,676	64,247	65,771	67,240	68,595	70,106	71,617	35,877
Downey	115,973	118,011	120,208	122,324	124,358	126,300	128,365	130,431	109,527
El Monte	130,412	135,813	141,183	146,429	151,455	156,123	161,265	166,407	118,007
El Segundo	17,268	17,495	17,500	17,505	17,510	17,515	17,564	17,614	49,461
Gardena	62,452	65,579	67,708	69,968	72,140	74,269	76,632	78,996	123,998
Glendale	210,950	214,200	217,744	221,154	224,431	227,561	230,883	234,205	185,980
Glendora	53,598	55,019	56,366	57,611	58,852	60,002	61,283	62,564	44,587
Hawaiian Gardens	16,189	16,442	16,717	16,981	17,235	17,478	17,736	17,994	8,452
Hawthorne	94,042	98,586	103,236	107,748	112,119	116,312	120,766	125,220	65,336
Huntington Park	67,062	68,896	70,817	72,675	74,469	76,184	78,008	79,833	48,957
Industry	807	807	809	811	812	814	815	817	117,937
Inglewood	118,466	120,185	120,678	121,065	121,669	122,200	122,947	123,694	89,048
Irwindale	1,774	1,982	2,190	2,394	2,591	2,780	2,981	3,182	43,549
La Canada Flintridge	21,575	21,627	21,712	21,791	21,862	21,930	22,001	22,072	21,443
La Habra Heights	6,241	6,381	6,590	6,852	7,103	7,364	7,589	7,813	6,375
La Mirada	51,772	55,766	58,780	62,003	65,045	67,963	71,201	74,439	40,110
La Puente	44,923	47,827	50,220	52,696	55,044	57,287	59,760	62,233	58,297
La Verne	34,227	35,240	36,317	37,712	39,051	40,457	41,703	42,949	31,650
Lakewood	84,060	84,354	84,420	84,425	84,430	84,435	84,510	84,585	21,730
Lancaster	160,650	181,493	202,406	222,761	242,523	261,501	281,671	301,841	128,525
Lawndale	34,477	35,348	36,264	37,152	38,010	38,835	39,707	40,578	21,838
Lomita	21,303	21,415	21,557	21,691	21,816	21,936	22,063	22,189	10,670
Long Beach	503,251	517,226	531,854	545,980	559,598	572,614	586,487	600,359	302,599
Los Angeles IWMA*	4,813,863	4,903,804	4,998,662	5,089,958	5,178,002	5,262,070	5,351,711	5,441,353	4,115,038
Lynwood	73,874	74,519	74,524	74,529	74,534	74,539	74,672	74,805	19,189
Malibu	14,402	14,991	15,598	16,188	16,761	17,310	17,892	18,473	41,067
Maywood	29,783	29,867	29,995	30,113	30,227	30,334	30,444	30,554	18,292
Monrovia	39,763	40,269	40,831	41,371	41,886	42,378	42,901	43,424	38,918
Montebello	65,728	65,983	65,989	65,994	65,999	66,005	66,060	66,116	78,876
Monterey Park	68,636	72,618	76,042	79,205	82,373	85,303	88,636	91,970	49,625
Norwalk	111,889	113,484	115,236	116,922	118,543	120,092	121,733	123,373	66,548
Palmdale	182,663	220,121	257,545	293,971	329,321	363,252	399,370	435,488	116,240
Paramount	60,128	62,878	65,463	68,023	70,475	72,781	75,312	77,842	48,751
Pasadena	149,854	152,719	155,786	158,759	161,648	164,433	167,349	170,265	197,239
Pico Rivera	68,427	69,943	71,392	72,740	74,077	75,296	76,670	78,044	72,857
Rolling Hills	1,985	1,988	1,994	2,000	2,006	2,012	2,017	2,023	5,442
Rolling Hills Estates	8,336	9,150	9,215	9,273	9,307	9,311	9,506	9,701	12,487
San Dimas	37,481	38,828	42,477	46,348	49,996	53,457	56,652	59,847	38,053
San Fernando	25,452	25,798	26,179	26,546	26,898	27,235	27,592	27,948	21,376
San Gabriel	42,500	44,605	45,784	47,113	48,396	49,679	51,115	52,551	33,881
San Marino	13,623	13,634	13,667	13,695	13,720	13,743	13,767	13,791	12,638
Santa Clarita	181,974	193,866	205,935	217,660	229,023	239,923	251,513	263,103	145,268
Santa Fe Springs	18,778	19,561	20,364	21,144	21,898	22,620	23,388	24,157	128,003
Santa Monica	91,335	91,443	91,689	91,913	92,120	92,314	92,510	92,706	99,595
Signal Hill	11,405	11,772	12,155	12,527	12,887	13,234	13,600	13,966	16,163
South El Monte	22,785	23,097	23,440	23,770	24,087	24,388	24,709	25,029	38,395
South Pasadena	25,899	26,002	26,145	26,280	26,410	26,534	26,661	26,788	17,431
Temple City	36,098	36,746	37,444	38,116	38,760	39,375	40,030	40,686	28,227
Unincorporated	1,188,319	1,282,624	1,378,395	1,471,609	1,561,983	1,648,694	1,740,769	1,832,844	1,018,939
Vernon	95	95	95	95	95	95	95	95	208,310
Walnut	32,353	33,567	34,408	35,301	36,166	36,989	37,916	38,843	26,240
West Covina	115,338	121,123	127,037	132,745	138,266	143,539	149,179	154,819	76,919
West Hollywood	38,223	38,515	38,864	39,197	39,515	39,821	40,141	40,460	33,990
Westlake Village	9,058	9,191	9,335	9,474	9,608	9,735	9,870	10,006	14,215
Whittier	87,689	88,957	89,982	90,900	91,853	92,746	93,757	94,769	135,766
County Total:	10,615,730	10,971,602	11,329,829	11,678,552	12,015,889	12,338,620	12,683,293	13,027,871	9,859,567
<p>Note: All population data between 2010 and 2035 are projected estimates from the Southern California Association of Governments (SCAG). Estimates are based on fertility, mortality, and migration for each of four ethnic groups within three population classes (residents, domestic migrants, international migrants). Projected population data for the years 2040 and 2045 are based on the average difference in population between projection years 2010 through 2035.</p> <p>*The Los Angeles County Integrated Waste Management Authority (IWMA) is comprised of the following member cities: Artesia, Beverly Hills, Duarte, Hermosa Beach, Hidden Hills, Los Angeles, Manhattan Beach, Palos Verdes Estates, Pomona, Rancho Palos Verdes, Redondo Beach, Rosemead, Sierra Madre, South Gate, and Torrance.</p>									

APPENDIX I

Orange County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Net Tons)
Orange County									
Aliso Viejo	47,223	49,143	49,721	49,943	50,188	50,214	50,812	51,410	18,755
Anaheim	365,985	387,414	401,750	414,763	425,781	438,645	453,177	467,709	425,789
Brea	42,973	45,417	46,031	46,295	46,751	46,997	47,802	48,607	68,065
Buena Park	86,396	87,875	89,044	89,577	90,103	90,295	91,075	91,855	79,692
Costa Mesa	120,501	122,828	124,692	125,675	126,492	126,958	128,249	129,541	126,405
Cypress	51,101	52,412	53,827	54,397	54,934	55,159	55,971	56,782	61,992
Dana Point	38,169	38,946	39,509	39,766	40,173	40,393	40,838	41,283	36,543
Fountain Valley	59,392	61,009	62,278	63,086	63,969	64,525	65,552	66,578	47,649
Fullerton	142,940	146,194	148,862	150,411	152,494	153,398	155,490	157,581	139,781
Garden Grove	181,032	185,265	188,623	190,409	192,315	192,532	194,832	197,132	171,051
Huntington Beach	212,957	217,822	220,892	222,569	224,788	225,815	228,387	230,958	188,538
Irvine	235,633	256,721	264,222	265,965	268,246	269,802	276,636	283,470	264,134
La Habra	65,304	66,958	67,812	68,186	68,616	68,711	69,392	70,074	57,269
La Palma	16,837	17,154	17,357	17,438	17,527	17,622	17,779	17,936	10,313
Laguna Beach	25,886	26,371	26,670	26,787	26,950	27,045	27,277	27,509	40,873
Laguna Hills	34,364	34,922	35,736	35,912	36,210	36,382	36,786	37,189	25,916
Laguna Niguel	69,994	71,433	72,442	72,766	73,129	73,163	73,797	74,431	51,966
Laguna Woods	19,327	19,679	20,133	20,244	20,406	20,485	20,717	20,948	14,219
Lake Forest	78,718	78,952	79,853	80,018	80,482	80,598	80,974	81,350	82,924
Los Alamitos	12,564	12,831	13,020	13,124	13,237	13,312	13,462	13,611	21,014
Mission Viejo	102,056	103,344	105,014	105,623	106,140	106,176	107,000	107,824	75,034
Newport Beach	88,340	91,320	93,195	95,428	96,892	97,766	99,651	101,536	104,056
Orange	150,313	154,480	157,245	158,622	159,607	160,313	162,313	164,313	179,384
Unincorporated	166,893	198,935	214,384	229,703	236,469	237,211	251,275	265,338	121,604
Placentia	54,847	55,984	58,366	59,891	61,456	62,111	63,564	65,017	49,932
Rancho Santa Margarita	51,972	52,685	53,312	53,675	53,941	53,985	54,388	54,790	33,604
San Clemente	68,999	70,731	72,597	73,174	73,839	74,151	75,181	76,212	58,580
San Juan Capistrano	39,201	40,229	40,741	40,892	41,117	41,153	41,543	41,934	45,699
Santa Ana	364,683	371,043	376,353	378,397	380,356	380,613	383,799	386,985	332,601
Seal Beach	26,626	27,115	27,444	27,570	27,776	27,871	28,120	28,369	24,830
Stanton	39,749	41,548	43,453	44,796	45,716	46,137	47,415	48,692	39,498
Tustin	80,728	86,621	88,245	88,694	89,110	89,154	90,839	92,524	61,447
Villa Park	6,247	6,277	6,331	6,378	6,444	6,492	6,541	6,590	5,417
Westminster	96,485	98,384	99,794	100,496	101,486	102,017	103,123	104,230	70,251
Yorba Linda	70,513	73,713	74,987	75,613	76,399	76,789	78,044	79,299	67,382
Total:	3,314,948	3,451,755	3,533,935	3,586,283	3,629,539	3,653,990	3,721,798	3,789,607	3,202,206

Note: All population data between 2010 and 2035 are projected estimates from the Southern California Association of Governments (SCAG). Estimates are based on fertility, mortality, and migration for each of four ethnic groups within three population classes (residents, domestic migrants, international migrants). Projected population data for the years 2040 and 2045 are based on the average difference in population between projection years 2010 through 2035.

APPENDIX I

Riverside County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Tons)
Riverside County									
Banning	35,645	42,121	47,683	53,713	59,392	63,787	69,415	75,044	26,042
Beaumont	33,951	45,029	52,591	63,660	74,686	77,438	86,135	94,833	26,983
Blythe	23,123	24,170	25,897	26,496	27,011	27,626	28,527	29,427	9,486
Calimesa	11,605	15,193	18,267	21,348	25,504	28,831	32,276	35,721	5,647
Canyon Lake	11,137	11,277	11,409	11,533	11,618	11,710	11,825	11,939	7,453
Cathedral City	55,745	60,293	65,222	69,431	74,052	76,838	81,057	85,275	46,472
Coachella	46,981	60,759	75,540	90,122	104,703	119,383	133,863	148,344	30,457
Corona	150,177	154,631	157,556	161,749	165,260	167,900	171,445	174,989	188,145
Desert Hot Springs	39,540	50,836	55,894	60,817	65,723	70,311	76,465	82,619	13,042
Hemet	85,741	100,831	107,529	120,349	132,576	144,891	156,721	168,551	66,797
Indian Wells	5,309	5,708	6,025	6,311	6,523	6,711	6,991	7,272	12,687
Indio	77,967	86,890	93,115	99,476	105,873	112,020	118,831	125,641	82,959
La Quinta	45,272	50,049	52,922	54,788	56,440	57,937	60,470	63,003	38,901
Lake Elsinore	51,138	61,045	69,558	78,044	85,376	92,438	100,698	108,958	43,710
Moreno Valley	189,700	206,657	220,390	234,410	246,804	258,350	272,080	285,810	129,486
Murrieta	103,726	109,715	114,370	119,689	123,550	127,962	132,809	137,656	66,071
Norco	29,058	30,693	32,052	33,437	34,531	35,085	36,290	37,496	37,214
Palm Desert	54,435	59,588	64,860	67,206	70,303	73,131	76,870	80,609	72,562
Palm Springs	49,239	51,756	56,288	60,499	65,403	70,853	75,176	79,499	68,654
Perris	55,799	64,220	71,468	78,671	84,881	90,951	97,981	105,012	59,257
Rancho Mirage	18,983	22,585	26,764	32,096	32,542	32,847	35,620	38,393	30,656
Riverside	300,523	312,924	335,468	353,162	372,782	385,794	402,848	419,902	342,862
Unincorporated	617,242	710,478	854,662	988,192	1,104,572	1,243,634	1,368,912	1,494,191	537,694
San Jacinto	51,322	68,732	80,922	87,000	92,177	96,106	105,063	114,020	29,596
Temecula	99,387	103,150	112,551	117,800	121,495	124,146	129,098	134,050	89,965
Total:	2,242,745	2,509,330	2,809,003	3,089,999	3,343,777	3,596,680	3,867,467	4,138,254	2,062,796

Note: All population data between 2010 and 2035 are projected estimates from the Southern California Association of Governments (SCAG). Estimates are based on fertility, mortality, and migration for each of four ethnic groups within three population classes (residents, domestic migrants, international migrants). Projected population data for the years 2040 and 2045 are based on the average difference in population between projection years 2010 through 2035.

APPENDIX I

San Bernardino County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Tons)
San Bernardino County									
Adelanto	40,742	56,674	71,877	86,629	100,814	114,398	129,129	143,860	19,753
Apple Valley	71,630	77,115	82,005	86,749	91,311	95,681	100,491	105,301	57,453
Barstow	31,972	40,043	47,810	55,346	62,593	69,533	77,045	84,557	25,744
Big Bear Lake	7,032	7,842	8,583	9,303	9,995	10,657	11,382	12,107	15,347
Chino	81,998	87,313	93,823	100,142	106,220	112,038	118,046	124,054	93,985
Chino Hills	79,298	80,382	81,039	81,678	82,292	82,880	83,596	84,313	39,477
Colton	58,815	65,543	71,880	78,029	83,942	89,604	95,762	101,920	46,649
Fontana	174,719	185,804	195,866	205,630	215,018	224,011	233,869	243,728	168,789
Grand Terrace	12,926	13,406	13,801	14,188	14,557	14,911	15,308	15,705	9,799
Hesperia	102,895	126,456	148,751	170,384	191,186	211,108	232,751	254,393	68,043
Highland	55,345	59,208	62,708	66,105	69,371	72,497	75,927	79,358	31,008
Loma Linda	25,481	28,997	32,259	35,426	38,470	41,385	44,566	47,747	15,905
Montclair	39,271	42,704	45,849	48,901	51,833	54,643	57,717	60,792	32,579
Needles	5,658	5,752	5,775	5,797	5,819	5,840	5,876	5,913	130
Ontario	187,060	213,839	246,304	277,799	308,088	337,095	367,102	397,109	243,128
Rancho Cucamonga	171,980	172,405	172,409	172,414	172,417	172,420	172,508	172,596	146,298
Redlands	73,441	76,602	80,973	85,214	89,288	93,196	97,147	101,098	68,813
Rialto	107,849	115,846	123,080	130,100	136,845	143,308	150,400	157,492	88,342
San Bernardino	213,318	224,924	235,616	245,989	255,959	265,515	275,954	286,394	201,885
Unincorporated	346,523	380,393	408,654	436,081	462,447	487,697	515,932	544,167	304,393
Twentynine Palms	35,352	42,900	49,991	56,872	63,488	69,823	76,717	83,611	21,321
Upland	75,951	77,666	78,927	80,146	81,322	82,444	83,743	85,041	60,846
Victorville	106,649	122,205	138,023	153,376	168,134	182,275	197,400	212,525	96,941
Yucaipa	52,729	55,215	57,359	59,440	61,441	63,357	65,483	67,608	32,522
Yucca Valley	23,415	26,514	29,403	32,207	34,903	37,485	40,299	43,113	19,129
Total:	2,182,049	2,385,748	2,582,765	2,773,945	2,957,753	3,133,801	3,324,151	3,514,502	1,908,279

Note: All population data between 2010 and 2035 are projected estimates from the Southern California Association of Governments (SCAG). Estimates are based on fertility, mortality, and migration for each of four ethnic groups within three population classes (residents, domestic migrants, international migrants). Projected population data for the years 2040 and 2045 are based on the average difference in population between projection years 2010 through 2035.

APPENDIX I

San Diego County Population Projections									
City/County	Population 2010	Population 2015	Population 2020	Population 2025	Population 2030	Population 2035	Population 2040	Population 2045	3 Year Average (Tons)
San Diego County									
Carlsbad	106,804	112,231	117,657	120,604	123,551	125,470	127,389	128,385	120,924
Chula Vista	237,595	252,511	267,427	278,236	289,044	303,314	317,583	323,982	179,220
Coronado	23,916	25,132	26,348	26,574	26,800	27,174	27,548	27,743	46,213
Del Mar	4,660	4,730	4,799	4,858	4,916	4,985	5,053	5,101	11,135
El Cajon	99,637	104,630	109,623	119,085	128,547	136,018	143,488	144,002	102,323
Encinitas	65,171	66,883	68,594	70,823	73,052	74,222	75,392	76,026	69,256
Escondido	147,514	150,922	154,329	159,798	165,267	168,779	172,290	174,938	138,751
Imperial Beach	28,680	28,455	28,230	29,402	30,574	31,832	33,089	34,644	13,605
La Mesa	58,150	60,125	62,100	64,042	65,984	69,651	73,317	75,549	41,216
Lemon Grove	26,131	26,410	26,688	27,430	28,171	29,442	30,713	31,429	20,851
National City	57,799	60,050	62,300	65,803	69,306	74,011	78,715	84,393	54,408
Oceanside	183,095	189,275	195,455	202,529	209,602	212,024	214,445	215,905	138,536
Poway	52,056	53,063	54,070	56,011	57,951	58,532	59,112	59,460	60,935
San Diego	1,376,173	1,459,351	1,542,528	1,615,891	1,689,254	1,753,089	1,816,924	1,881,247	1,558,857
Unincorporated	503,320	524,305	545,290	581,060	616,829	642,615	668,401	681,433	594,486
San Marcos	84,391	87,597	90,802	96,050	101,298	102,873	104,448	105,078	88,339
Santee	58,044	61,281	64,517	67,193	69,868	71,631	73,393	73,535	51,046
Solana Beach	13,783	14,005	14,227	14,576	14,924	15,252	15,579	15,761	15,895
Vista	97,513	98,765	100,016	102,539	105,062	115,936	126,809	135,673	102,518
Total:	3,224,432	3,379,716	3,535,000	3,702,500	3,870,000	4,016,844	4,163,688	4,274,278	3,408,516

Note: All population data for 2010, 2020, 2030 and 2040 are projected estimates from the San Diego Association of Governments (SANDAG). Estimates are based on economic and demographic projections, existing land-use plans and policies, and potential land-use plan changes. Projected population data for the years 2015, 2025, 2035 and 2045 are based on the average difference in population between the available projection years of 2010 through 2050.

Appendix J

Disposal Tonnage Projections:

Base-Year Conditions

20% Decrease in Tons Disposed by 2020

50% Decrease in Tons Disposed by 2030

APPENDIX J

City/County	Imperial County Projected Disposal (Tons) Based on Base-Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
Imperial County								
Imperial Valley Resource Management Agency*	237,080	289,540	323,534	348,872	366,064	375,596	403,299	431,002
Total:	237,080	289,540	323,534	348,872	366,064	375,596	403,299	431,002

APPENDIX J

City/County	Los Angeles County Projected Disposal (Tons) Based on Base-Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
Los Angeles County								
Agoura Hills	24,497	24,508	24,553	24,595	24,628	24,660	24,693	24,725
Alhambra	49,822	51,085	52,038	52,998	53,940	54,836	55,839	56,842
Arcadia	52,867	54,245	55,692	57,090	58,439	59,727	61,099	62,471
Avalon	3,387	3,698	3,919	4,167	4,397	4,618	4,865	5,111
Azusa	48,007	49,793	51,129	52,508	53,839	55,120	56,543	57,965
Baldwin Park	55,378	56,220	57,139	58,024	58,876	59,690	60,553	61,415
Bell	24,656	24,746	24,872	24,991	25,104	25,211	25,322	25,433
Bell Gardens	37,988	38,186	38,439	38,679	38,906	39,122	39,349	39,576
Bellflower	38,993	39,921	40,900	41,846	42,758	43,631	44,559	45,486
Bradbury	3,854	4,001	4,156	4,304	4,451	4,587	4,734	4,881
Burbank	106,812	110,935	115,184	119,303	123,283	127,095	131,152	135,208
Calabasas	60,067	62,756	65,002	67,528	69,812	72,010	74,398	76,787
Carson	254,729	261,570	268,737	275,666	282,346	288,738	295,540	302,341
Cerritos	55,430	55,516	55,685	55,839	55,980	56,110	56,246	56,382
Claremont	28,119	28,525	28,972	29,402	29,815	30,210	30,628	31,046
Commerce	130,516	130,660	130,989	131,307	131,606	131,896	132,172	132,448
Compton	106,834	106,920	107,162	107,387	107,611	107,831	108,030	108,230
Covina	46,033	48,547	50,475	52,495	54,422	56,264	58,311	60,357
Cudahy	17,885	18,316	18,771	19,211	19,637	20,044	20,476	20,908
Culver	55,761	56,001	56,321	56,625	56,912	57,182	57,466	57,750
Diamond Bar	35,877	36,838	37,761	38,657	39,520	40,317	41,205	42,093
Downey	109,527	111,452	113,527	115,525	117,446	119,280	121,231	123,181
El Monte	118,007	122,894	127,753	132,500	137,048	141,272	145,925	150,578
El Segundo	49,461	50,112	50,126	50,140	50,155	50,169	50,310	50,452
Gardena	123,998	130,206	134,433	138,920	143,233	147,460	152,153	156,845
Glendale	185,980	188,846	191,970	194,976	197,865	200,625	203,554	206,483
Glendora	44,587	45,769	46,889	47,925	48,957	49,914	50,980	52,045
Hawaiian Gardens	8,452	8,584	8,728	8,866	8,998	9,125	9,260	9,394
Hawthorne	65,336	68,493	71,724	74,859	77,895	80,809	83,903	86,997
Huntington Park	48,957	50,296	51,698	53,054	54,364	55,616	56,948	58,280
Industry	117,937	117,937	118,230	118,522	118,668	118,960	119,165	119,370
Inglewood	89,048	90,340	90,711	91,002	91,456	91,855	92,416	92,978
Inwindale	43,549	48,656	53,762	58,770	63,606	68,246	73,185	78,124
La Canada Flintridge	21,443	21,494	21,579	21,657	21,728	21,796	21,866	21,937
La Habra Heights	6,375	6,518	6,732	6,999	7,256	7,522	7,752	7,981
La Mirada	40,110	43,205	45,540	48,037	50,394	52,654	55,163	57,672
La Puente	58,297	62,065	65,170	68,384	71,431	74,341	77,550	80,759
La Verne	31,650	32,586	33,582	34,872	36,110	37,410	38,563	39,715
Lakewood	21,730	21,806	21,823	21,824	21,826	21,827	21,846	21,866
Lancaster	128,525	145,200	161,931	178,215	194,025	209,208	225,345	241,482
Lawndale	21,838	22,390	22,970	23,532	24,076	24,598	25,150	25,702
Lomita	10,670	10,727	10,798	10,865	10,927	10,988	11,051	11,114
Long Beach	302,599	311,002	319,798	328,291	336,480	344,306	352,648	360,989
Los Angeles IWMA*	4,115,038	4,186,681	4,263,966	4,338,410	4,409,960	4,478,408	4,551,082	4,623,756
Lynwood	19,189	19,356	19,358	19,359	19,360	19,362	19,396	19,431
Malibu	41,067	42,746	44,477	46,160	47,794	49,359	51,017	52,676
Maywood	18,292	18,344	18,422	18,495	18,565	18,631	18,698	18,766
Monrovia	38,918	39,413	39,964	40,492	40,996	41,478	41,990	42,501
Montebello	78,876	79,182	79,190	79,196	79,202	79,209	79,275	79,342
Monterey Park	49,625	52,504	54,980	57,267	59,557	61,676	64,086	66,496
Norwalk	66,548	67,497	68,539	69,541	70,506	71,427	72,403	73,378
Palmdale	116,240	140,077	163,892	187,073	209,568	231,161	254,145	277,129
Paramount	48,751	50,981	53,077	55,153	57,141	59,010	61,062	63,114
Pasadena	197,239	201,010	205,047	208,960	212,763	216,428	220,266	224,104
Pico Rivera	72,857	74,471	76,014	77,449	78,873	80,170	81,633	83,096
Rolling Hills	5,442	5,450	5,467	5,483	5,500	5,516	5,531	5,546
Rolling Hills Estates	12,487	13,707	13,804	13,891	13,942	13,948	14,240	14,532
San Dimas	38,053	39,420	43,125	47,055	50,759	54,273	57,516	60,760
San Fernando	21,376	21,666	21,986	22,294	22,590	22,873	23,173	23,472
San Gabriel	33,881	35,559	36,499	37,559	38,581	39,604	40,749	41,894
San Marino	12,638	12,648	12,678	12,704	12,728	12,749	12,771	12,793
Santa Clarita	145,268	154,761	164,395	173,755	182,826	191,527	200,779	210,031
Santa Fe Springs	128,003	133,340	138,814	144,131	149,271	154,192	159,430	164,668
Santa Monica	99,595	99,713	99,981	100,226	100,451	100,663	100,876	101,090
Signal Hill	16,163	16,683	17,226	17,753	18,263	18,755	19,273	19,792
South El Monte	38,395	38,921	39,499	40,055	40,589	41,096	41,636	42,177
South Pasadena	17,431	17,500	17,596	17,687	17,775	17,858	17,944	18,029
Temple City	28,227	28,734	29,280	29,805	30,309	30,790	31,302	31,815
Unincorporated	1,018,939	1,099,802	1,181,922	1,261,849	1,339,342	1,413,693	1,492,644	1,571,595
Vernon	208,310	208,310	208,310	208,310	208,310	208,310	208,310	208,310
Walnut	26,240	27,225	27,907	28,631	29,333	30,000	30,752	31,504
West Covina	76,919	80,777	84,721	88,528	92,209	95,726	99,487	103,249
West Hollywood	33,990	34,249	34,560	34,856	35,139	35,411	35,695	35,979
Westlake Village	14,215	14,424	14,650	14,868	15,079	15,278	15,490	15,703
Whittier	135,766	137,729	139,316	140,737	142,213	143,595	145,161	146,727
County Total:	9,859,567	10,166,448	10,476,032	10,778,092	11,069,717	11,349,058	11,646,956	11,944,855

APPENDIX J

City/County	Orange County Projected Disposal (Tons) Based on Base-Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
Orange County								
Aliso Viejo	18,755	19,518	19,747	19,835	19,933	19,943	20,181	20,418
Anaheim	425,789	450,720	467,398	482,538	495,356	510,322	527,229	544,135
Brea	68,065	71,936	72,908	73,326	74,049	74,438	75,713	76,988
Buena Park	79,692	81,056	82,134	82,626	83,111	83,288	84,008	84,727
Costa Mesa	126,405	128,846	130,801	131,832	132,689	133,178	134,533	135,888
Cypress	61,992	63,582	65,299	65,990	66,641	66,914	67,899	68,884
Dana Point	36,543	37,287	37,826	38,072	38,462	38,672	39,098	39,524
Fountain Valley	47,649	48,946	49,964	50,612	51,321	51,767	52,590	53,414
Fullerton	139,781	142,963	145,572	147,087	149,124	150,008	152,053	154,099
Garden Grove	171,051	175,050	178,223	179,911	181,712	181,917	184,090	186,263
Huntington Beach	188,538	192,845	195,563	197,048	199,012	199,921	202,198	204,475
Irvine	264,134	287,773	296,181	298,135	300,692	302,436	310,096	317,757
La Habra	57,269	58,719	59,468	59,796	60,173	60,256	60,854	61,451
La Palma	10,313	10,507	10,631	10,681	10,735	10,794	10,890	10,986
Laguna Beach	40,873	41,638	42,111	42,295	42,553	42,703	43,069	43,435
Laguna Hills	25,916	26,337	26,950	27,083	27,308	27,438	27,742	28,046
Laguna Niguel	51,966	53,035	53,784	54,024	54,294	54,319	54,790	55,260
Laguna Woods	14,219	14,478	14,812	14,893	15,012	15,070	15,241	15,411
Lake Forest	82,924	83,170	84,119	84,293	84,782	84,904	85,300	85,696
Los Alamitos	21,014	21,461	21,777	21,951	22,140	22,265	22,515	22,765
Mission Viejo	75,034	75,981	77,208	77,656	78,036	78,063	78,669	79,274
Newport Beach	104,056	107,567	109,775	112,405	114,130	115,159	117,380	119,601
Orange	179,384	184,357	187,657	189,300	190,476	191,318	193,705	196,092
Unincorporated	121,604	144,950	156,207	167,369	172,299	172,839	183,087	193,334
Placentia	49,932	50,967	53,136	54,524	55,949	56,545	57,868	59,190
Rancho Santa Margarita	33,604	34,065	34,470	34,705	34,877	34,905	35,165	35,426
San Clemente	58,580	60,051	61,635	62,125	62,689	62,954	63,829	64,704
San Juan Capistrano	45,699	46,897	47,494	47,670	47,932	47,974	48,430	48,885
Santa Ana	332,601	338,402	343,245	345,109	346,895	347,130	350,035	352,941
Seal Beach	24,830	25,286	25,593	25,711	25,903	25,991	26,224	26,456
Stanton	39,498	41,285	43,178	44,513	45,427	45,845	47,115	48,384
Tustin	61,447	65,933	67,169	67,511	67,828	67,861	69,144	70,426
Villa Park	5,417	5,443	5,490	5,531	5,588	5,630	5,672	5,715
Westminster	70,251	71,634	72,661	73,172	73,893	74,279	75,085	75,890
Yorba Linda	67,382	70,440	71,658	72,256	73,007	73,380	74,579	75,779
Total:	3,202,206	3,333,124	3,411,845	3,461,586	3,504,027	3,530,430	3,596,075	3,661,720

APPENDIX J

City/County	Riverside County Projected Disposal (Tons) Based on Base-Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
Riverside County								
Banning	26,042	30,773	34,837	39,242	43,391	46,602	50,714	54,826
Beaumont	26,983	35,788	41,798	50,595	59,359	61,546	68,458	75,371
Blythe	9,486	9,916	10,624	10,870	11,081	11,334	11,703	12,073
Calimesa	5,647	7,392	8,888	10,387	12,409	14,028	15,705	17,381
Canyon Lake	7,453	7,546	7,635	7,718	7,775	7,836	7,913	7,990
Cathedral City	46,472	50,263	54,372	57,881	61,733	64,056	67,573	71,089
Coachella	30,457	39,389	48,972	58,425	67,878	77,395	86,782	96,170
Corona	188,145	193,725	197,389	202,642	207,041	210,348	214,789	219,230
Desert Hot Springs	13,042	16,768	18,436	20,060	21,678	23,191	25,221	27,251
Hemet	66,797	78,553	83,771	93,759	103,284	112,878	122,094	131,311
Indian Wells	12,687	13,641	14,399	15,082	15,589	16,038	16,708	17,378
Indio	82,959	92,453	99,076	105,845	112,651	119,192	126,438	133,685
La Quinta	38,901	43,006	45,475	47,078	48,498	49,784	51,960	54,137
Lake Elsinore	43,710	52,178	59,454	66,707	72,974	79,010	86,071	93,131
Moreno Valley	129,486	141,061	150,435	160,005	168,465	176,346	185,718	195,090
Murrieta	66,071	69,885	72,850	76,239	78,698	81,508	84,596	87,683
Norco	37,214	39,308	41,048	42,822	44,223	44,933	46,476	48,020
Palm Desert	72,562	79,431	86,459	89,586	93,715	97,484	102,469	107,453
Palm Springs	68,654	72,164	78,483	84,354	91,192	98,791	104,818	110,846
Perris	59,257	68,200	75,897	83,546	90,141	96,587	104,053	111,519
Rancho Mirage	30,656	36,472	43,221	51,832	52,552	53,044	57,522	62,000
Riverside	342,862	357,010	382,730	402,916	425,301	440,146	459,603	479,059
Unincorporated	537,694	618,914	744,516	860,837	962,219	1,083,359	1,192,492	1,301,625
San Jacinto	29,596	39,635	46,665	50,170	53,155	55,421	60,586	65,751
Temecula	89,965	93,371	101,881	106,632	109,977	112,376	116,859	121,341
Total:	2,062,796	2,286,842	2,549,310	2,795,231	3,014,977	3,233,234	3,467,321	3,701,409

APPENDIX J

City/County	San Bernardino County Projected Disposal (Tons) Based on Base-Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
San Bernardino County								
Adelanto	19,753	27,478	34,848	42,001	48,878	55,464	62,606	69,749
Apple Valley	57,453	61,853	65,775	69,580	73,239	76,744	80,603	84,461
Barstow	25,744	32,243	38,497	44,565	50,400	55,988	62,037	68,086
Big Bear Lake	15,347	17,115	18,732	20,303	21,814	23,258	24,841	26,423
Chino	93,985	100,077	107,539	114,782	121,748	128,417	135,303	142,189
Chino Hills	39,477	40,017	40,344	40,662	40,968	41,260	41,617	41,974
Colton	46,649	51,985	57,012	61,889	66,579	71,069	75,954	80,838
Fontana	168,789	179,498	189,218	198,651	207,720	216,408	225,932	235,455
Grand Terrace	9,799	10,163	10,462	10,756	11,036	11,304	11,605	11,906
Hesperia	68,043	83,623	98,366	112,672	126,428	139,602	153,914	168,226
Highland	31,008	33,172	35,133	37,036	38,866	40,618	42,539	44,461
Loma Linda	15,905	18,100	20,136	22,113	24,013	25,833	27,818	29,804
Montclair	32,579	35,427	38,036	40,568	43,000	45,332	47,882	50,433
Needles	130	132	133	133	134	134	135	136
Ontario	243,128	277,933	320,129	361,064	400,432	438,133	477,134	516,135
Rancho Cucamonga	146,298	146,660	146,663	146,667	146,670	146,672	146,747	146,822
Redlands	68,813	71,775	75,870	79,844	83,661	87,323	91,025	94,727
Rialto	88,342	94,892	100,818	106,568	112,093	117,387	123,196	129,005
San Bernardino	201,885	212,869	222,988	232,805	242,240	251,284	261,164	271,044
Unincorporated	304,393	334,145	358,970	383,062	406,223	428,403	453,205	478,007
Twentynine Palms	21,321	25,873	30,150	34,300	38,290	42,110	46,268	50,426
Upland	60,846	62,220	63,230	64,207	65,149	66,048	67,088	68,128
Victorville	96,941	111,081	125,459	139,415	152,830	165,683	179,432	193,180
Yucaipa	32,522	34,055	35,378	36,661	37,895	39,077	40,388	41,699
Yucca Valley	19,129	21,661	24,021	26,311	28,514	30,623	32,922	35,221
Total:	1,908,279	2,084,046	2,257,907	2,426,615	2,588,819	2,744,175	2,911,355	3,078,534

APPENDIX J

City/County	San Diego County Projected Disposal (Tons) Based on Base Year Conditions							
	2010	2015	2020	2025	2030	2035	2040	2045
San Diego County								
Carlsbad	120,924	127,068	133,212	136,549	139,885	142,058	144,231	145,359
Chula Vista	179,220	190,471	201,722	209,875	218,028	228,791	239,555	244,382
Coronado	46,213	48,563	50,913	51,349	51,786	52,509	53,231	53,607
Del Mar	11,135	11,301	11,467	11,607	11,747	11,911	12,074	12,188
El Cajon	102,323	107,451	112,578	122,295	132,012	139,684	147,356	147,884
Encinitas	69,256	71,075	72,894	75,262	77,631	78,874	80,118	80,791
Escondido	138,751	141,957	145,162	150,306	155,450	158,753	162,056	164,546
Imperial Beach	13,605	13,498	13,391	13,947	14,503	15,100	15,696	16,434
La Mesa	41,216	42,616	44,016	45,392	46,769	49,368	51,967	53,548
Lemon Grove	20,851	21,073	21,296	21,887	22,479	23,493	24,507	25,078
National City	54,408	56,526	58,645	61,942	65,240	69,668	74,097	79,441
Oceanside	138,536	143,212	147,888	153,240	158,592	160,424	162,256	163,360
Poway	60,935	62,114	63,293	65,564	67,836	68,515	69,195	69,602
San Diego	1,558,857	1,653,077	1,747,296	1,830,398	1,913,499	1,985,808	2,058,117	2,130,979
Unincorporated	594,486	619,271	644,057	686,306	728,554	759,011	789,467	804,859
San Marcos	88,339	91,695	95,050	100,544	106,037	107,686	109,335	109,994
Santee	51,046	53,892	56,738	59,091	61,444	62,994	64,544	64,669
Solana Beach	15,895	16,151	16,407	16,809	17,211	17,589	17,967	18,176
Vista	102,518	103,834	105,149	107,802	110,454	121,886	133,318	142,636
Total:	3,408,516	3,574,845	3,741,175	3,920,167	4,099,159	4,254,123	4,409,087	4,527,534

APPENDIX J

City/County	Imperial County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
Imperial County								
Imperial Valley Resource Management Agency*	237,080	260,586	258,827	279,098	292,851	300,477	322,639	344,802
Total:	237,080	260,586	258,827	279,098	292,851	300,477	322,639	344,802

APPENDIX J

City/County	Los Angeles County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
Los Angeles County								
Agoura Hills	24,497	22,057	19,642	19,676	19,703	19,728	19,754	19,780
Alhambra	49,822	45,977	41,631	42,399	43,152	43,869	44,671	45,473
Arcadia	52,867	48,821	44,553	45,672	46,751	47,782	48,879	49,977
Avalon	3,387	3,328	3,135	3,333	3,517	3,695	3,892	4,089
Azusa	48,007	44,813	40,903	42,006	43,071	44,096	45,234	46,372
Baldwin Park	55,378	50,598	45,711	46,419	47,101	47,752	48,442	49,132
Bell	24,656	22,272	19,898	19,993	20,083	20,169	20,258	20,346
Bell Gardens	37,988	34,367	30,751	30,943	31,125	31,298	31,480	31,661
Bellflower	38,993	35,929	32,720	33,477	34,207	34,905	35,647	36,389
Bradbury	3,854	3,601	3,325	3,443	3,561	3,670	3,787	3,904
Burbank	106,812	99,841	92,147	95,442	98,626	101,676	104,921	108,167
Calabasas	60,067	56,480	52,001	54,023	55,850	57,608	59,519	61,429
Carson	254,729	235,413	214,990	220,533	225,877	230,990	236,432	241,873
Cerritos	55,430	49,965	44,548	44,671	44,784	44,888	44,997	45,106
Claremont	28,119	25,673	23,178	23,522	23,852	24,168	24,502	24,837
Commerce	130,516	117,594	104,791	105,046	105,285	105,517	105,737	105,958
Compton	106,834	96,228	85,730	85,910	86,089	86,265	86,424	86,584
Covina	46,033	43,693	40,380	41,996	43,537	45,012	46,649	48,286
Cudahy	17,885	16,485	15,017	15,369	15,709	16,035	16,381	16,726
Culver	55,761	50,401	45,057	45,300	45,529	45,745	45,973	46,200
Diamond Bar	35,877	33,154	30,209	30,925	31,616	32,253	32,964	33,674
Downey	109,527	100,307	90,821	92,420	93,957	95,424	96,984	98,545
El Monte	118,007	110,605	102,203	106,000	109,639	113,018	116,740	120,463
El Segundo	49,461	45,100	40,101	40,112	40,124	40,135	40,248	40,361
Gardena	123,998	117,186	107,547	111,136	114,586	117,968	121,722	125,476
Glendale	185,980	169,961	153,576	155,981	158,292	160,500	162,843	165,186
Glendora	44,587	41,192	37,512	38,340	39,166	39,931	40,784	41,636
Hawaiian Gardens	8,452	7,726	6,982	7,092	7,199	7,300	7,408	7,515
Hawthorne	65,336	61,644	57,379	59,887	62,316	64,647	67,122	69,598
Huntington Park	48,957	45,266	41,358	42,444	43,491	44,493	45,558	46,624
Industry	117,937	106,144	94,584	94,818	94,934	95,168	95,332	95,496
Inglewood	89,048	81,306	72,569	72,802	73,165	73,484	73,933	74,382
Irwindale	43,549	43,790	43,009	47,016	50,885	54,596	58,548	62,499
La Canada Flintridge	21,443	19,345	17,263	17,326	17,382	17,436	17,493	17,549
La Habra Heights	6,375	5,866	5,385	5,599	5,805	6,018	6,201	6,385
La Mirada	40,110	38,884	36,432	38,429	40,315	42,123	44,130	46,137
La Puente	58,297	55,859	52,136	54,707	57,144	59,473	62,040	64,607
La Verne	31,650	29,328	26,866	27,898	28,888	29,928	30,850	31,772
Lakewood	21,730	19,625	17,458	17,460	17,461	17,462	17,477	17,493
Lancaster	128,525	130,680	129,545	142,572	155,220	167,367	180,276	193,185
Lawndale	21,838	20,151	18,376	18,826	19,261	19,679	20,120	20,562
Lomita	10,670	9,654	8,638	8,692	8,742	8,790	8,841	8,892
Long Beach	302,599	279,902	255,838	262,633	269,184	275,445	282,118	288,791
Los Angeles IWMA*	4,115,038	3,768,013	3,411,173	3,470,728	3,527,968	3,582,727	3,640,866	3,699,005
Lynwood	19,189	17,421	15,486	15,487	15,488	15,489	15,517	15,545
Malibu	41,067	38,472	35,582	36,928	38,235	39,487	40,814	42,141
Maywood	18,292	16,509	14,738	14,796	14,852	14,905	14,959	15,013
Monrovia	38,918	35,472	31,971	32,394	32,797	33,182	33,592	34,001
Montebello	78,876	71,264	63,352	63,357	63,361	63,367	63,420	63,473
Monterey Park	49,625	47,254	43,984	45,813	47,646	49,341	51,269	53,197
Norwalk	66,548	60,747	54,831	55,633	56,404	57,141	57,922	58,703
Palmdale	116,240	126,069	131,114	149,658	167,655	184,929	203,316	221,703
Paramount	48,751	45,883	42,462	44,122	45,713	47,208	48,850	50,491
Pasadena	197,239	180,909	164,038	167,168	170,210	173,143	176,213	179,283
Pico Rivera	72,857	67,024	60,811	61,959	63,098	64,136	65,307	66,477
Rolling Hills	5,442	4,905	4,374	4,387	4,400	4,413	4,425	4,437
Rolling Hills Estates	12,487	12,336	11,043	11,113	11,153	11,158	11,392	11,626
San Dimas	38,053	35,478	34,500	37,644	40,607	43,418	46,013	48,608
San Fernando	21,376	19,500	17,589	17,836	18,072	18,298	18,538	18,778
San Gabriel	33,881	32,003	29,199	30,047	30,865	31,683	32,599	33,515
San Marino	12,638	11,383	10,143	10,163	10,182	10,199	10,217	10,235
Santa Clarita	145,268	139,285	131,516	139,004	146,261	153,222	160,624	168,025
Santa Fe Springs	128,003	120,006	111,051	115,305	119,417	123,354	127,544	131,735
Santa Monica	99,595	89,742	79,985	80,181	80,361	80,530	80,701	80,872
Signal Hill	16,163	15,015	13,781	14,202	14,611	15,004	15,419	15,833
South El Monte	38,395	35,029	31,599	32,044	32,471	32,877	33,309	33,741
South Pasadena	17,431	15,750	14,077	14,150	14,220	14,287	14,355	14,423
Temple City	28,227	25,861	23,424	23,844	24,247	24,632	25,042	25,452
Unincorporated	1,018,939	989,822	945,537	1,009,479	1,071,473	1,130,954	1,194,115	1,257,276
Vernon	208,310	187,479	166,648	166,648	166,648	166,648	166,648	166,648
Walnut	26,240	24,502	22,325	22,905	23,466	24,000	24,602	25,203
West Covina	76,919	72,699	67,777	70,822	73,768	76,581	79,590	82,599
West Hollywood	33,990	30,825	27,648	27,885	28,111	28,329	28,556	28,783
Westlake Village	14,215	12,982	11,720	11,895	12,063	12,222	12,392	12,562
Whittier	135,766	123,956	111,453	112,590	113,770	114,876	116,129	117,382
County Total:	9,859,567	9,149,803	8,380,826	8,622,473	8,855,773	9,079,246	9,317,565	9,555,884

APPENDIX J

City/County	Orange County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
Orange County								
Aliso Viejo	18,755	17,566	15,798	15,868	15,946	15,954	16,144	16,335
Anaheim	425,789	405,648	373,919	386,030	396,285	408,258	421,783	435,308
Brea	68,065	64,742	58,327	58,661	59,239	59,551	60,570	61,590
Buena Park	79,692	72,950	65,708	66,101	66,489	66,631	67,206	67,782
Costa Mesa	126,405	115,961	104,641	105,466	106,152	106,543	107,626	108,710
Cypress	61,992	57,224	52,239	52,792	53,313	53,532	54,319	55,107
Dana Point	36,543	33,558	30,261	30,458	30,769	30,938	31,279	31,619
Fountain Valley	47,649	44,051	39,971	40,490	41,057	41,413	42,072	42,731
Fullerton	139,781	128,667	116,458	117,670	119,299	120,006	121,643	123,279
Garden Grove	171,051	157,545	142,578	143,928	145,369	145,533	147,272	149,010
Huntington Beach	188,538	173,561	156,450	157,638	159,210	159,937	161,759	163,580
Irvine	264,134	258,996	236,945	238,508	240,553	241,949	248,077	254,205
La Habra	57,269	52,847	47,574	47,837	48,138	48,205	48,683	49,161
La Palma	10,313	9,456	8,505	8,545	8,588	8,635	8,712	8,789
Laguna Beach	40,873	37,475	33,688	33,836	34,042	34,162	34,455	34,748
Laguna Hills	25,916	23,703	21,560	21,667	21,846	21,950	22,194	22,437
Laguna Niguel	51,966	47,731	43,027	43,219	43,435	43,455	43,832	44,208
Laguna Woods	14,219	13,030	11,849	11,915	12,010	12,056	12,193	12,329
Lake Forest	82,924	74,853	67,296	67,435	67,826	67,923	68,240	68,557
Los Alamitos	21,014	19,314	17,421	17,560	17,712	17,812	18,012	18,212
Mission Viejo	75,034	68,383	61,767	62,125	62,429	62,450	62,935	63,419
Newport Beach	104,056	96,810	87,820	89,924	91,304	92,128	93,904	95,681
Orange	179,384	165,921	150,125	151,440	152,381	153,055	154,964	156,873
Unincorporated	121,604	130,455	124,966	133,895	137,839	138,272	146,469	154,667
Placentia	49,932	45,870	42,509	43,619	44,759	45,236	46,294	47,352
Rancho Santa Margarita	33,604	30,658	27,576	27,764	27,901	27,924	28,132	28,341
San Clemente	58,580	54,046	49,308	49,700	50,151	50,363	51,063	51,763
San Juan Capistrano	45,699	42,208	37,995	38,136	38,346	38,380	38,744	39,108
Santa Ana	332,601	304,561	274,596	276,087	277,516	277,704	280,028	282,353
Seal Beach	24,830	22,758	20,475	20,569	20,722	20,793	20,979	21,165
Stanton	39,498	37,157	34,543	35,610	36,342	36,676	37,692	38,708
Tustin	61,447	59,340	53,735	54,009	54,262	54,289	55,315	56,341
Villa Park	5,417	4,899	4,392	4,425	4,471	4,504	4,538	4,572
Westminster	70,251	64,471	58,129	58,537	59,114	59,423	60,068	60,712
Yorba Linda	67,382	63,396	57,326	57,805	58,406	58,704	59,663	60,623
Total:	3,202,206	2,999,812	2,729,476	2,769,269	2,803,222	2,824,344	2,876,860	2,929,376

APPENDIX J

City/County	Riverside County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
Riverside County								
Banning	26,042	27,696	27,869	31,394	34,713	37,282	40,571	43,861
Beaumont	26,983	32,209	33,438	40,476	47,487	49,237	54,767	60,297
Blythe	9,486	8,924	8,499	8,696	8,865	9,067	9,363	9,658
Calimesa	5,647	6,653	7,110	8,310	9,928	11,223	12,564	13,905
Canyon Lake	7,453	6,792	6,108	6,174	6,220	6,269	6,330	6,392
Cathedral City	46,472	45,237	43,498	46,305	49,387	51,245	54,058	56,871
Coachella	30,457	35,450	39,177	46,740	54,302	61,916	69,426	76,936
Corona	188,145	174,352	157,911	162,114	165,633	168,279	171,831	175,384
Desert Hot Springs	13,042	15,091	14,749	16,048	17,342	18,553	20,177	21,801
Hemet	66,797	70,698	67,017	75,007	82,627	90,303	97,675	105,048
Indian Wells	12,687	12,277	11,519	12,066	12,471	12,830	13,366	13,903
Indio	82,959	83,208	79,261	84,676	90,121	95,353	101,151	106,948
La Quinta	38,901	38,705	36,380	37,662	38,798	39,827	41,568	43,310
Lake Elsinore	43,710	46,960	47,563	53,366	58,379	63,208	68,856	74,505
Moreno Valley	129,486	126,955	120,348	128,004	134,772	141,077	148,574	156,072
Murrieta	66,071	62,897	58,280	60,991	62,958	65,207	67,677	70,147
Norco	37,214	35,377	32,839	34,258	35,378	35,946	37,181	38,416
Palm Desert	72,562	71,488	69,167	71,669	74,972	77,987	81,975	85,962
Palm Springs	68,654	64,948	62,786	67,484	72,954	79,033	83,855	88,677
Perris	59,257	61,380	60,718	66,837	72,113	77,270	83,243	89,216
Rancho Mirage	30,656	32,825	34,577	41,465	42,041	42,436	46,018	49,600
Riverside	342,862	321,309	306,184	322,333	340,240	352,117	367,682	383,248
Unincorporated	537,694	557,023	595,613	688,670	769,775	866,687	953,993	1,041,300
San Jacinto	29,596	35,672	37,332	40,136	42,524	44,337	48,469	52,601
Temecula	89,965	84,034	81,505	85,306	87,981	89,901	93,487	97,073
Total:	2,062,796	2,058,158	2,039,448	2,236,184	2,411,982	2,586,587	2,773,857	2,961,127

APPENDIX J

City/County	San Bernardino County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
San Bernardino County								
Adelanto	19,753	24,730	27,879	33,601	39,103	44,371	50,085	55,799
Apple Valley	57,453	55,668	52,620	55,664	58,591	61,395	64,482	67,569
Barstow	25,744	29,018	30,797	35,652	40,320	44,790	49,630	54,469
Big Bear Lake	15,347	15,403	14,986	16,243	17,451	18,607	19,873	21,138
Chino	93,985	90,070	86,031	91,825	97,399	102,733	108,242	113,752
Chino Hills	39,477	36,015	32,275	32,530	32,774	33,008	33,294	33,579
Colton	46,649	46,787	45,609	49,511	53,263	56,856	60,763	64,670
Fontana	168,789	161,548	151,374	158,920	166,176	173,126	180,745	188,364
Grand Terrace	9,799	9,147	8,370	8,605	8,828	9,043	9,284	9,525
Hesperia	68,043	75,261	78,693	90,137	101,142	111,681	123,131	134,580
Highland	31,008	29,855	28,106	29,629	31,093	32,494	34,032	35,569
Loma Linda	15,905	16,290	16,109	17,690	19,211	20,666	22,255	23,843
Montclair	32,579	31,884	30,429	32,454	34,400	36,265	38,306	40,346
Needles	130	119	106	107	107	108	108	109
Ontario	243,128	250,140	256,103	288,851	320,345	350,506	381,707	412,908
Rancho Cucamonga	146,298	131,994	117,330	117,334	117,336	117,338	117,398	117,458
Redlands	68,813	64,597	60,696	63,875	66,929	69,858	72,820	75,781
Rialto	88,342	85,403	80,654	85,255	89,675	93,910	98,557	103,204
San Bernardino	201,885	191,582	178,390	186,244	193,792	201,027	208,931	216,835
Unincorporated	304,393	300,730	287,176	306,450	324,978	342,722	362,564	382,405
Twentynine Palms	21,321	23,286	24,120	27,440	30,632	33,688	37,015	40,341
Upland	60,846	55,998	50,584	51,365	52,119	52,838	53,670	54,503
Victorville	96,941	99,973	100,368	111,532	122,264	132,547	143,545	154,544
Yucaipa	32,522	30,650	28,302	29,329	30,316	31,262	32,310	33,359
Yucca Valley	19,129	19,495	19,217	21,049	22,811	24,499	26,338	28,177
Total:	1,908,279	1,875,641	1,806,326	1,941,292	2,071,055	2,195,340	2,329,084	2,462,827

APPENDIX J

City/County	San Diego County Projected Disposal (Tons) Based on a 20% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
San Diego County								
Carlsbad	120,924	114,361	106,570	109,239	111,908	113,647	115,385	116,287
Chula Vista	179,220	171,424	161,378	167,900	174,422	183,033	191,644	195,505
Coronado	46,213	43,707	40,730	41,079	41,429	42,007	42,585	42,886
Del Mar	11,135	10,171	9,174	9,286	9,398	9,529	9,660	9,750
El Cajon	102,323	96,706	90,063	97,836	105,610	111,747	117,885	118,307
Encinitas	69,256	63,967	58,315	60,210	62,105	63,099	64,094	64,633
Escondido	138,751	127,761	116,129	120,245	124,360	127,002	129,645	131,637
Imperial Beach	13,605	12,148	10,713	11,158	11,603	12,080	12,557	13,147
La Mesa	41,216	38,355	35,213	36,314	37,415	39,494	41,573	42,839
Lemon Grove	20,851	18,966	17,037	17,510	17,983	18,795	19,606	20,063
National City	54,408	50,874	46,916	49,554	52,192	55,734	59,277	63,553
Oceanside	138,536	128,890	118,310	122,592	126,873	128,339	129,805	130,688
Poway	60,935	55,903	50,634	52,452	54,269	54,812	55,356	55,682
San Diego	1,558,857	1,487,769	1,397,837	1,464,318	1,530,800	1,588,647	1,646,494	1,704,783
Unincorporated	594,486	557,344	515,246	549,045	582,843	607,209	631,574	643,887
San Marcos	88,339	82,525	76,040	80,435	84,830	86,149	87,468	87,995
Santee	51,046	48,503	45,391	47,273	49,155	50,395	51,635	51,735
Solana Beach	15,895	14,536	13,126	13,448	13,769	14,071	14,373	14,541
Vista	102,518	93,450	84,120	86,242	88,364	97,509	106,654	114,109
Total:	3,408,516	3,217,361	2,992,940	3,136,134	3,279,328	3,403,299	3,527,270	3,622,027

APPENDIX J

City/County	Imperial County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2030							
	2010	2015	2020	2025	2030	2035	2040	2045
Imperial County								
Imperial Valley Resource Management Agency*	237,080	260,586	242,650	226,767	183,032	187,798	201,649	215,501
Total:	237,080	260,586	242,650	226,767	183,032	187,798	201,649	215,501

APPENDIX J

City/County	Los Angeles County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2030							
	2010	2015	2020	2025	2030	2035	2040	2045
Los Angeles County								
Agoura Hills	24,497	22,057	18,415	15,987	12,314	12,330	12,346	12,363
Alhambra	49,822	45,977	39,029	34,449	26,970	27,418	27,919	28,421
Arcadia	52,867	48,821	41,769	37,108	29,219	29,863	30,549	31,235
Avalon	3,387	3,328	2,939	2,708	2,198	2,309	2,432	2,555
Azusa	48,007	44,813	38,347	34,130	26,920	27,560	28,271	28,983
Baldwin Park	55,378	50,598	42,854	37,716	29,438	29,845	30,276	30,708
Bell	24,656	22,272	18,654	16,244	12,552	12,605	12,661	12,716
Bell Gardens	37,988	34,367	28,829	25,141	19,453	19,561	19,675	19,788
Bellflower	38,993	35,929	30,675	27,200	21,379	21,816	22,279	22,743
Bradbury	3,854	3,601	3,117	2,798	2,226	2,294	2,367	2,440
Burbank	106,812	99,841	86,388	77,547	61,641	63,548	65,576	67,604
Calabasas	60,067	56,480	48,751	43,893	34,906	36,005	37,199	38,393
Carson	254,729	235,413	201,553	179,183	141,173	144,369	147,770	151,171
Cerritos	55,430	49,965	41,764	36,295	27,990	28,055	28,123	28,191
Claremont	28,119	25,673	21,729	19,111	14,907	15,105	15,314	15,523
Commerce	130,516	117,594	98,241	85,350	65,803	65,948	66,086	66,224
Compton	106,834	96,228	80,371	69,802	53,805	53,915	54,015	54,115
Covina	46,033	43,693	37,857	34,122	27,211	28,132	29,155	30,179
Cudahy	17,885	16,485	14,079	12,487	9,818	10,022	10,238	10,454
Culver	55,761	50,401	42,241	36,806	28,456	28,591	28,733	28,875
Diamond Bar	35,877	33,154	28,321	25,127	19,760	20,158	20,602	21,046
Downey	109,527	100,307	85,145	75,091	58,723	59,640	60,615	61,591
El Monte	118,007	110,605	95,815	86,125	68,524	70,636	72,963	75,289
El Segundo	49,461	45,100	37,594	32,591	25,077	25,084	25,155	25,226
Gardena	123,998	117,186	100,825	90,298	71,616	73,730	76,076	78,423
Glendale	185,980	169,961	143,978	126,735	98,933	100,313	101,777	103,241
Glendora	44,587	41,192	35,167	31,151	24,479	24,957	25,490	26,022
Hawaiian Gardens	8,452	7,726	6,546	5,763	4,499	4,563	4,630	4,697
Hawthorne	65,336	61,644	53,793	48,658	38,948	40,404	41,952	43,499
Huntington Park	48,957	45,266	38,774	34,485	27,182	27,808	28,474	29,140
Industry	117,937	106,144	88,672	77,039	59,334	59,480	59,583	59,685
Inglewood	89,048	81,306	68,033	59,151	45,728	45,928	46,208	46,489
Irwindale	43,549	43,790	40,321	38,200	31,803	34,123	36,592	39,062
La Canada Flintridge	21,443	19,345	16,184	14,077	10,864	10,898	10,933	10,968
La Habra Heights	6,375	5,866	5,049	4,550	3,628	3,761	3,876	3,991
La Mirada	40,110	38,884	34,155	31,224	25,197	26,327	27,582	28,836
La Puente	58,297	55,859	48,878	44,449	35,715	37,171	38,775	40,380
La Verne	31,650	29,328	25,187	22,667	18,055	18,705	19,281	19,857
Lakewood	21,730	19,625	16,367	14,186	10,913	10,913	10,923	10,933
Lancaster	128,525	130,680	121,448	115,840	97,013	104,604	112,673	120,741
Lawndale	21,838	20,151	17,227	15,296	12,038	12,299	12,575	12,851
Lomita	10,670	9,654	8,098	7,062	5,464	5,494	5,525	5,557
Long Beach	302,599	279,902	239,848	213,389	168,240	172,153	176,324	180,495
Los Angeles IWMA*	4,115,038	3,768,013	3,197,974	2,819,967	2,204,980	2,239,204	2,275,541	2,311,878
Lynwood	19,189	17,421	14,518	12,583	9,680	9,681	9,698	9,715
Malibu	41,067	38,472	33,358	30,004	23,897	24,680	25,509	26,338
Maywood	18,292	16,509	13,817	12,022	9,282	9,315	9,349	9,383
Monrovia	38,918	35,472	29,973	26,320	20,498	20,739	20,995	21,251
Montebello	78,876	71,264	59,392	51,477	39,601	39,604	39,638	39,671
Monterey Park	49,625	47,254	41,235	37,223	29,779	30,838	32,043	33,248
Norwalk	66,548	60,747	51,404	45,202	35,253	35,713	36,201	36,689
Palmdale	116,240	126,069	122,919	121,597	104,784	115,580	127,072	138,564
Paramount	48,751	45,883	39,808	35,849	28,570	29,505	30,531	31,557
Pasadena	197,239	180,909	153,785	135,824	106,381	108,214	110,133	112,052
Pico Rivera	72,857	67,024	57,010	50,342	39,436	40,085	40,817	41,548
Rolling Hills	5,442	4,905	4,100	3,564	2,750	2,758	2,766	2,773
Rolling Hills Estates	12,487	12,336	10,353	9,029	6,971	6,974	7,120	7,266
San Dimas	38,053	35,478	32,344	30,586	25,379	27,136	28,758	30,380
San Fernando	21,376	19,500	16,490	14,491	11,295	11,437	11,586	11,736
San Gabriel	33,881	32,003	27,374	24,413	19,291	19,802	20,374	20,947
San Marino	12,638	11,383	9,509	8,258	6,364	6,374	6,386	6,397
Santa Clarita	145,268	139,285	123,296	112,941	91,413	95,764	100,390	105,016
Santa Fe Springs	128,003	120,006	104,111	93,685	74,635	77,096	79,715	82,334
Santa Monica	99,595	89,742	74,986	65,147	50,226	50,331	50,438	50,545
Signal Hill	16,163	15,015	12,919	11,540	9,132	9,378	9,637	9,896
South El Monte	38,395	35,029	29,624	26,036	20,294	20,548	20,818	21,088
South Pasadena	17,431	15,750	13,197	11,497	8,887	8,929	8,972	9,015
Temple City	28,227	25,861	21,960	19,373	15,154	15,395	15,651	15,907
Unincorporated	1,018,939	989,822	886,441	820,202	669,671	706,847	746,322	785,797
Vernon	208,310	187,479	156,232	135,401	104,155	104,155	104,155	104,155
Walnut	26,240	24,502	20,930	18,610	14,666	15,000	15,376	15,752
West Covina	76,919	72,699	63,541	57,543	46,105	47,863	49,744	51,624
West Hollywood	33,990	30,825	25,920	22,656	17,569	17,705	17,848	17,990
Westlake Village	14,215	12,982	10,988	9,664	7,539	7,639	7,745	7,851
Whittier	135,766	123,956	104,487	91,479	71,106	71,798	72,581	73,364
County Total:	9,859,567	9,149,803	7,857,024	7,005,760	5,534,858	5,674,529	5,823,478	5,972,427

APPENDIX J

City/County	Orange County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2030							
	2010	2015	2020	2025	2030	2035	2040	2045
Orange County								
Aliso Viejo	18,755	17,566	14,810	12,893	9,966	9,971	10,090	10,209
Anaheim	425,789	405,648	350,549	313,650	247,678	255,161	263,614	272,068
Brea	68,065	64,742	54,681	47,662	37,024	37,219	37,857	38,494
Buena Park	79,692	72,950	61,601	53,707	41,556	41,644	42,004	42,363
Costa Mesa	126,405	115,961	98,101	85,691	66,345	66,589	67,266	67,944
Cypress	61,992	57,224	48,974	42,894	33,321	33,457	33,950	34,442
Dana Point	36,543	33,558	28,370	24,747	19,231	19,336	19,549	19,762
Fountain Valley	47,649	44,051	37,473	32,898	25,660	25,883	26,295	26,707
Fullerton	139,781	128,667	109,179	95,607	74,562	75,004	76,027	77,049
Garden Grove	171,051	157,545	133,667	116,942	90,856	90,958	92,045	93,131
Huntington Beach	188,538	173,561	146,672	128,081	99,506	99,961	101,099	102,237
Irvine	264,134	258,996	222,136	193,788	150,346	151,218	155,048	158,878
La Habra	57,269	52,847	44,601	38,867	30,087	30,128	30,427	30,726
La Palma	10,313	9,456	7,973	6,943	5,368	5,397	5,445	5,493
Laguna Beach	40,873	37,475	31,583	27,492	21,276	21,351	21,534	21,717
Laguna Hills	25,916	23,703	20,213	17,604	13,654	13,719	13,871	14,023
Laguna Niguel	51,966	47,731	40,338	35,116	27,147	27,160	27,395	27,630
Laguna Woods	14,219	13,030	11,109	9,681	7,506	7,535	7,620	7,706
Lake Forest	82,924	74,853	63,090	54,791	42,391	42,452	42,650	42,848
Los Alamitos	21,014	19,314	16,332	14,268	11,070	11,133	11,258	11,383
Mission Viejo	75,034	68,383	57,906	50,476	39,018	39,031	39,334	39,637
Newport Beach	104,056	96,810	82,331	73,064	57,065	57,580	58,690	59,800
Orange	179,384	165,921	140,743	123,045	95,238	95,659	96,853	98,046
Unincorporated	121,604	130,455	117,155	108,790	86,149	86,420	91,543	96,667
Placentia	49,932	45,870	39,852	35,441	27,974	28,273	28,934	29,595
Rancho Santa Margarita	33,604	30,658	25,852	22,558	17,438	17,453	17,583	17,713
San Clemente	58,580	54,046	46,226	40,381	31,345	31,477	31,914	32,352
San Juan Capistrano	45,699	42,208	35,621	30,986	23,966	23,987	24,215	24,442
Santa Ana	332,601	304,561	257,433	224,321	173,448	173,565	175,018	176,471
Seal Beach	24,830	22,758	19,195	16,712	12,951	12,996	13,112	13,228
Stanton	39,498	37,157	32,384	28,933	22,714	22,923	23,557	24,192
Tustin	61,447	59,340	50,377	43,882	33,914	33,931	34,572	35,213
Villa Park	5,417	4,899	4,118	3,595	2,794	2,815	2,836	2,857
Westminster	70,251	64,471	54,495	47,562	36,946	37,140	37,542	37,945
Yorba Linda	67,382	63,396	53,743	46,966	36,504	36,690	37,290	37,889
Total:	3,202,206	2,999,812	2,558,884	2,250,031	1,752,014	1,765,215	1,798,037	1,830,860

APPENDIX J

City/County	Riverside County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2030							
	2010	2015	2020	2025	2030	2035	2040	2045
Riverside County								
Banning	26,042	27,696	26,128	25,507	21,696	23,301	25,357	27,413
Beaumont	26,983	32,209	31,348	32,887	29,679	30,773	34,229	37,685
Blythe	9,486	8,924	7,968	7,066	5,541	5,667	5,852	6,036
Calimesa	5,647	6,653	6,666	6,752	6,205	7,014	7,852	8,690
Canyon Lake	7,453	6,792	5,726	5,017	3,887	3,918	3,956	3,995
Cathedral City	46,472	45,237	40,779	37,623	30,867	32,028	33,786	35,545
Coachella	30,457	35,450	36,729	37,976	33,939	38,697	43,391	48,085
Corona	188,145	174,352	148,042	131,717	103,520	105,174	107,395	109,615
Desert Hot Springs	13,042	15,091	13,827	13,039	10,839	11,596	12,611	13,625
Hemet	66,797	70,698	62,828	60,943	51,642	56,439	61,047	65,655
Indian Wells	12,687	12,277	10,799	9,803	7,794	8,019	8,354	8,689
Indio	82,959	83,208	74,307	68,799	56,326	59,596	63,219	66,842
La Quinta	38,901	38,705	34,106	30,601	24,249	24,892	25,980	27,068
Lake Elsinore	43,710	46,960	44,591	43,360	36,487	39,505	43,035	46,565
Moreno Valley	129,486	126,955	112,826	104,003	84,232	88,173	92,859	97,545
Murrieta	66,071	62,897	54,638	49,555	39,349	40,754	42,298	43,842
Norco	37,214	35,377	30,786	27,834	22,112	22,466	23,238	24,010
Palm Desert	72,562	71,488	64,844	58,231	46,857	48,742	51,234	53,727
Palm Springs	68,654	64,948	58,862	54,830	45,596	49,396	52,409	55,423
Perris	59,257	61,380	56,923	54,305	45,071	48,294	52,027	55,760
Rancho Mirage	30,656	32,825	32,416	33,691	26,276	26,522	28,761	31,000
Riverside	342,862	321,309	287,047	261,896	212,650	220,073	229,801	239,530
Unincorporated	537,694	557,023	558,387	559,544	481,109	541,679	596,246	650,812
San Jacinto	29,596	35,672	34,999	32,610	26,578	27,710	30,293	32,875
Temecula	89,965	84,034	76,411	69,311	54,988	56,188	58,429	60,671
Total:	2,062,796	2,058,158	1,911,983	1,816,900	1,507,489	1,616,617	1,733,661	1,850,704

APPENDIX J

City/County	San Bernardino County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2030							
	2010	2015	2020	2025	2030	2035	2040	2045
San Bernardino County								
Adelanto	19,753	24,730	26,136	27,301	24,439	27,732	31,303	34,874
Apple Valley	57,453	55,668	49,331	45,227	36,620	38,372	40,301	42,230
Barstow	25,744	29,018	28,873	28,967	25,200	27,994	31,018	34,043
Big Bear Lake	15,347	15,403	14,049	13,197	10,907	11,629	12,420	13,211
Chino	93,985	90,070	80,654	74,608	60,874	64,208	67,652	71,095
Chino Hills	39,477	36,015	30,258	26,430	20,484	20,630	20,809	20,987
Colton	46,649	46,787	42,759	40,228	33,289	35,535	37,977	40,419
Fontana	168,789	161,548	141,914	129,123	103,860	108,204	112,966	117,728
Grand Terrace	9,799	9,147	7,847	6,991	5,518	5,652	5,802	5,953
Hesperia	68,043	75,261	73,775	73,237	63,214	69,801	76,957	84,113
Highland	31,008	29,855	26,350	24,074	19,433	20,309	21,270	22,231
Loma Linda	15,905	16,290	15,102	14,374	12,007	12,916	13,909	14,902
Montclair	32,579	31,884	28,527	26,369	21,500	22,666	23,941	25,216
Needles	130	119	100	87	67	67	68	68
Ontario	243,128	250,140	240,097	234,692	200,216	219,066	238,567	258,068
Rancho Cucamonga	146,298	131,994	109,997	95,334	73,335	73,336	73,374	73,411
Redlands	68,813	64,597	56,903	51,898	41,831	43,661	45,512	47,363
Rialto	88,342	85,403	75,614	69,269	56,047	58,694	61,598	64,503
San Bernardino	201,885	191,582	167,241	151,323	121,120	125,642	130,582	135,522
Unincorporated	304,393	300,730	269,227	248,990	203,111	214,201	226,602	239,003
Twentynine Palms	21,321	23,286	22,612	22,295	19,145	21,055	23,134	25,213
Upland	60,846	55,998	47,422	41,734	32,574	33,024	33,544	34,064
Victorville	96,941	99,973	94,095	90,620	76,415	82,842	89,716	96,590
Yucaipa	32,522	30,650	26,533	23,830	18,948	19,538	20,194	20,849
Yucca Valley	19,129	19,495	18,016	17,102	14,257	15,312	16,461	17,611
Total:	1,908,279	1,875,641	1,693,430	1,577,299	1,294,409	1,372,088	1,455,677	1,539,267

APPENDIX J

City/County	San Diego County Projected Disposal (Tons) Based on a 50% Decrease in Tons Disposed by 2020							
	2010	2015	2020	2025	2030	2035	2040	2045
San Diego County								
Carlsbad	120,924	114,361	99,909	88,757	69,943	71,029	72,115	72,679
Chula Vista	179,220	171,424	151,291	136,419	109,014	114,396	119,778	122,191
Coronado	46,213	43,707	38,185	33,377	25,893	26,254	26,616	26,804
Del Mar	11,135	10,171	8,601	7,545	5,874	5,955	6,037	6,094
El Cajon	102,323	96,706	84,434	79,492	66,006	69,842	73,678	73,942
Encinitas	69,256	63,967	54,670	48,920	38,815	39,437	40,059	40,395
Escondido	138,751	127,761	108,871	97,699	77,725	79,376	81,028	82,273
Imperial Beach	13,605	12,148	10,044	9,066	7,252	7,550	7,848	8,217
La Mesa	41,216	38,355	33,012	29,505	23,384	24,684	25,983	26,774
Lemon Grove	20,851	18,966	15,972	14,227	11,240	11,747	12,254	12,539
National City	54,408	50,874	43,983	40,262	32,620	34,834	37,048	39,720
Oceanside	138,536	128,890	110,916	99,606	79,296	80,212	81,128	81,680
Poway	60,935	55,903	47,470	42,617	33,918	34,258	34,597	34,801
San Diego	1,558,857	1,487,769	1,310,472	1,189,758	956,750	992,904	1,029,059	1,065,489
Unincorporated	594,486	557,344	483,043	446,099	364,277	379,505	394,734	402,430
San Marcos	88,339	82,525	71,288	65,353	53,019	53,843	54,667	54,997
Santee	51,046	48,503	42,554	38,409	30,722	31,497	32,272	32,335
Solana Beach	15,895	14,536	12,306	10,926	8,606	8,794	8,983	9,088
Vista	102,518	93,450	78,862	70,071	55,227	60,943	66,659	71,318
Total:	3,408,516	3,217,361	2,805,881	2,548,109	2,049,580	2,127,062	2,204,544	2,263,767