TO:	James L. App, City Manager				
FROM:	Ron Whisenand, Community Development Director				
SUBJECT:	Negative Declaration for Solid Waste Facility (Landfill) Permit Revision				
DATE:	October 17, 2006				
Needs:	For the City Council to consider approval of a Negative Declaration for minor changes to the Landfill operating permit.				
Facts:	1. The project consists of a modification of the City of Paso Robles' solid waste facility permit to increase the daily and annual maximum throughput capacity from 250 tons per day and 69,000 tons per year to 450 tons per day and 75,000 tons per year and to extend daily operating hours of the landfill to allow the facility to open at 7:00 am instead of 8:00 am. Closing times will remain unchanged.				
	2. Attached is an Initial Study, which concludes that the project will not have any significant effects on the environment, and proposes that a Negative Declaration be approved.				
	3. Public notice of the proposed Negative Declaration was given as required by Section 21092 of the Public Resources Code, and provided for a 30 day review period. Pursuant to said public notice, the public was given the opportunity to submit written comments and to appear before the City Council at a public meeting conducted on October 17, 2006 to make oral comments on the draft Negative Declaration. The public comment period for the Initial Study will end on October 17, 2006.				
	4. As of October 6, no written comments have been received on the proposed Negative Declaration. Any written comment received prior to the Council's hearing on October 17 will be distributed to the Council, and copies will be made available to the public at the October 17 hearing.				
Analysis and Conclusion:	The attached Initial Study includes detailed analyses of effects of the project on traffic and air quality. These analyses conclude that there will be no significant effects on the environment as a result of the project.				
Policy Reference:	California Environmental Quality Act				
Fiscal Impact:	The adoption of a Negative Declaration will have no effect on the General Fund.				
Options:	Upon receipt of public comments, take one of the following actions:				
	a. Adopt Resolution No. 06-xx approving a Negative Declaration for the Project.b. Amend, modify, or reject the foregoing options.				
Attachments:					

- 1. Resolution Approving a Negative Declaration
- 2. Initial Study
- 3. Newspaper Notice

RESOLUTION NO. 06-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES ADOPTING A NEGATIVE DECLARATION FOR A MODIFICATION OF THE SOLID WASTE FACILITY PERMIT TO INCREASE THE DAILY AND ANNUAL TONNAGE AND TO EXTEND THE DAILY HOURS OF OPERATION

WHEREAS, the City of Paso Robles proposes to modify the City of Paso Robles' solid waste facility permit to increase the daily and annual maximum throughput capacity from 250 tons per day and 69,000 tons per year to 450 tons per day and 75,000 tons per year and to extend daily operating hours of the landfill to allow the facility to open at 7:00 am instead of 8:00 am; closing times will remain unchanged; and

WHEREAS, pursuant to the California Environmental Quality Act, the City has prepared an Initial Study for the permit modification (the "Project"), which concludes that the project will not have any significant effects on the environment and recommends that a Negative Declaration be adopted; and

WHEREAS, public notice of the proposed Negative Declaration was given as required by Section 21092 of the Public Resources Code; and pursuant to said public notice, the public was given the opportunity to submit written comments and to appear before the City Council at a public meeting conducted on October 17, 2006 to make oral comments on the draft Negative Declaration.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

<u>SECTION 1</u>. Based on the information contained in the plans and specifications prepared for the Project on file with the City's Department of Public Works, the Initial Study prepared for the Project, public comments and testimony received during the comment period at the public meeting conducted on October 17, 2006, the City Council finds, based on its independent judgment and analysis, that there is no substantial evidence that the Project will have a significant effect on the environment.

<u>SECTION 2</u>. The City Council of the City of Paso Robles does hereby approve and adopt the Negative Declaration for the Project. All of the documents and other evidence which constitute the record of proceedings upon which the findings in this Resolution are made are in the custody of the Department of Public Works, City Hall, 1000 Spring Street, Paso Robles, California 93446.

<u>SECTION 3</u>. The City Council of the City of Paso Robles does hereby approve the Project, and directs the City Clerk to file a Notice of Determination regarding the approval of the Project with the County Clerk of San Luis Obispo County for posting.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 17th day of October 2006 by the following vote:

AYES: NOES: ABSTAIN: ABSENT:

Frank R. Mecham, Mayor

ATTEST:

Deborah D. Robinson, Deputy City Clerk

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PROJECT DESCRIPTION / INITIAL STUDY CHECKLIST FORM PROPOSED SOLID WASTE FACILITY PERMIT REVISION CITY OF PASO ROBLES LANDFILL

Prepared for:

City of Paso Robles 1000 Spring Street Paso Robles, California 93446

Prepared by:

SCS ENGINEERS

6601 Koll Center Parkway, Suite 140 Pleasanton, California 94566 (925) 426-0080

September 12, 2006 File No. 01205150.00 / Task 10

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- A Traffic and Circulation Study (Associated Transportation Engineers)
- B Preliminary Evaluation of Air Quality Impacts, Proposed SWFP Revision (SCS Engineers)

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ENVIRONMENTAL INITIAL STUDY CHECKLIST FORM CITY OF PASO ROBLES PLANNING DIVISION

1. PROJECT TITLE: Solid Waste Facility Permit Revision, City of Paso Robles Landfill

Concurrent Entitlements:	None
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2. LEAD AGENCY: City of Paso Robles Community Development Services Department Planning Division 1000 Spring Street Paso Robles, CA 93446

Contact:	Ed Gallagher
Phone:	(805) 237-3970

3. PROJECT LOCATION:

The Paso Robles Landfill is located at 9000 Highway 46 East in San Luis Obispo County, California. It is approximately eight miles east of the City of Paso Robles, near the intersection of Union Road and state Highway 46. Entry to the landfill is along a paved access road from Highway 46. The site is in the west half of the southwest quadrant of Section 13, Township 26 South, Range 13 East, Mount Diablo Base & Meridian. The landfill property occupies approximately 80 acres as identified in the San Luis Obispo County Assessor Parcel Map as APN 025-491-001. Refer to *Figure 1 – Vicinity Map* and *Figure 2 – Location Map* for site location.

4.	PROJECT PROPONENT:	City of Paso Robles Public Works Department 1000 Spring Street Paso Robles, California 93446
	Contact Person: Phone:	Brad Hagemann (805) 237-3861
5.	GENERAL PLAN DESIGNATION:	Public Facilities (PF, City of Paso Robles)
6.	ZONING:	Public Facilities (City of Paso Robles)

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7. PROJECT DESCRIPTION:

Summary

The applicant, the City of Paso Robles, is requesting a solid waste facility permit modification to increase daily maximum throughput capacity and extend daily operating hours of the Paso Robles Sanitary Landfill.

The approximate 80-acre facility is classified as a Class III sanitary landfill, permitted for disposal of non-hazardous municipal solid wastes (MSW). The current Solid Waste Facility Permit (SWFP) allows for disposal of 69,000 tons MSW per year with a daily disposal maximum of 250 tons per day (tpd). A permit revision is proposed to increase the disposal limits to 75,000 tons per year and 450 tpd, respectively. It is also proposed that operating hours be changed to allow the facility to begin receiving waste at 7:00 a.m. daily, rather than 8:00 a.m. as currently permitted.

The plan area of the current landfill footprint (waste disposal area) is approximately 31 acres. At final build-out as currently permitted, the waste footprint will occupy approximately 65 acres. No changes are proposed to types of wastes accepted for landfill disposal, or to the permitted landfill footprint areas, final grades, or ultimate airspace capacity as part of this permit modification.

Landfill Site Description

The Paso Robles Landfill serves as the primary MSW disposal facility for the City of Paso Robles, surrounding unincorporated county areas (San Miguel and Shandon), and nearby state- or federally-owned facilities including the California Men's Colony, Hearst Castle State Park, and Camp Roberts. The landfill is owned by the City of Paso Robles and operated by Pacific Waste Services, Inc., under contract to the City.

The currently-permitted hours of operation are from 8:00 a.m. to 3:00 p.m. Monday through Saturday, and 8:00 a.m. to 2:00 p.m. on Sundays. Due to historic low waste volumes on Sundays, the site is now closed on that day. The site is open to the general public and franchised or permitted waste haulers.

The Paso Robles Landfill began operation in 1970. Until 1993, the landfill was operated by the trench and area fill method in accordance with regulations in effect at the time. During this period, disposal operations took place in an area now referred to as the "Existing Refuse Fill Area" (refer to *Figure 3 – Site Plan*). The Existing Refuse Fill Area is currently inactive and has received an interim final cover.

Since 1993, disposal operations have taken place in a series of lined disposal units designated as Modules 1, 2A, 2B, and 3A (refer to *Figure 3*). These disposal units were constructed and are operated in accordance with federal Subtitle D and California Code of Regulations (CCR) Title 27 requirements. Per these regulations, the cells were designed and constructed with engineered low-permeability soil (or an approved, engineered alternative geocomposite clay) and geosynthetic base liners and liquids removal systems to protect underlying groundwater quality. Modules 3B, 3C, 4 and 5, yet to be constructed, are within the permitted landfill footprint and will be utilized in the future when airspace capacity in existing cells is exhausted.

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Other site infrastructure and ancillary features include a scale and scalehouse/office building, a permitted household hazardous waste drop-off facility (owned and operated by the San Luis Obispo County Integrated Waste Management Authority), a landfill gas (LFG) collection and flare system, water supply and leachate storage tanks, and storm water sediment basins.

Details on current landfill operations (waste cell excavation and sequencing, waste placement and compaction, hazardous waste/special waste exclusion and handling, landfill cover placement, equipment use), environmental monitoring and control systems, and final grading and site closure plans can be found in the following landfill technical documents on file with the City:

- Pacific Waste Services, Inc., Draft Report of Disposal Site Information, CCR Title 27 Joint Technical Document for Paso Robles Sanitary Landfill, July, 2003.
- Pacific Waste Services, Inc. Draft Preliminary Closure and Post-Closure Maintenance Plan, Paso Robles Landfill, Paso Robles, California, November 2003.

Both documents above have been tentatively approved by the CIWMB with minor comments; final approval is pending CEQA certification by the City.

Existing Site Permits, Classification and Waste Acceptance

Permits—

The Paso Robles Landfill is referenced as site No. 40-AA-0001 in the California Integrated Waste Management Board (CIWMB) Solid Waste Information System database. A Solid Waste Facility Permit under this same number was issued on April 30, 1999. Per the SWFP, the peak average daily disposal rate cannot exceed 250 tpd.

The landfill is also operated in accordance with the following other permits and requirements:

- Waste Discharge Requirements (WDRs) Order No. 01-112, issued by the Central Coast Regional Water Quality Control Board (RWQCB) and dated October 26, 2001.
- Title V Permit to Operate for the Paso Robles Landfill, issued by the San Luis Obispo County Air Pollution Control District (APCD) in December, 2001.

Waste Acceptance and Classification—

The landfill is permitted as a Class III waste management unit. Under this designation, the waste types are accepted for disposal are: non-hazardous agricultural, construction and demolition debris; industrial wastes; metals; mixed municipal wastes; dried sewage sludge from the City's wastewater treatment plant; waste tires; and wood waste.

Other waste materials received at the site are separated for recycling and are not disposed of in the landfill. These materials include concrete, asphalt, appliances, clean wood waste, green waste and used tires.

Waste Disposal Rates--

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Annual and daily average MSW disposal rates at the Paso Robles Landfill for years 2003 through 2005 are provided below in *Table 1*. The disposal rates shown exclude source-separated recyclable materials deliveries to the landfill.

	Disposal Rate,	Disposal Rate Tons/day
Year	Tons/year	(6-day/week average)
2003	49,530	162
2004	49,650	162
2005	46,300	151
Average, 2003 – 05	48,500	158

TABLE 1. WASTE DISPOSAL RATES, PASO ROBLES LANDFILL

Need for the Project

Due to economic and population growth in the greater Paso Robles area, there have been periodic exceedences of the maximum daily tonnage limit at the landfill. Between April and June, 2006, the landfill exceeded its permitted daily maximum disposal intake of 250 tons on two occasions. Exceedences of this daily limit have also been reported on occasion during previous years. Annual disposal rates have remained within the existing permit limit.

Continued growth is expected for the area, based on the City of Paso Robles General Plan Land Use Element (2003) and Housing Element (2004). Population growth is forecasted to increase approximately 3 percent per year through 2010. Commercial/industrial development potential, measured in square feet of build-out, is expected to increase by about 3.3 percent per year through year 2025. Waste volumes are anticipated to continue to increase proportionally as the service area grows. A change in site permit conditions increasing the daily tonnage ceiling is needed to ensure uninterrupted disposal service to the community and compliance with permit conditions.

On December 5, 2003, the City and Pacific Waste Services Inc. submitted a 5-Year Permit Review Application and supporting documentation to the CIWMB. The following revisions were requested to the SWFP:

- Peak daily tonnage increase from 250 tpd to 450 tpd.
- Annual tonnage limit increase from 69,000 tons per year to 75,000 tons per year.
- Operating hours change allowing the site to open at 7:00 a.m. daily.

CIWMB approval for the requests and issuance of a new SWFP are subject to compliance with the California Environmental Quality Act (CEQA). The City has initiated the CEQA review process via this Initial Study.

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Proposed Landfill Operational Changes

The project is intended to accommodate existing and anticipated waste disposal needs of the community. Landfill traffic and waste volumes delivered to the site will increase proportionally with population and economic growth in the landfill service area. Existing landfill infrastructure and personnel staffing/equipment resources are believed to be sufficient to handle the additional waste deliveries and no significant changes in day-to-day landfill operations are proposed. Details on proposed operations are as follows:

Hours of Operation—

The site is currently permitted to be open to the public from 8:00 a.m. to 3:00 p.m. daily. The applicant proposes to open the site to waste deliveries at 7:00 a.m., and continue to close to the public at 3:00 p.m.

Typical daily site operations will begin at approximately 6:00 to 6:30 a.m. when employees arrive to the site, service equipment, remove daily cover tarps and generally prepare for waste deliveries. Daily site preparation activities typically include grading of waste tipping areas, placement of traffic barriers, watering of access roads for dust control. The gate will open at 7:00 a.m. and incoming vehicles will be weighed at the scale house and proceed to the waste tipping area.

As with current operations, site maintenance activities will continue after the gate closes at 3:00 p.m. to allow for waste compaction, cover soil placement, litter removal and equipment maintenance.

Traffic Count and Controls--

Waste and recyclable materials deliveries to the Paso Robles Landfill are by franchised haulers (front-, side- and rear-load compactor trucks and roll-off box vehicles), commercial customers (contractors, landscapers, etc. arriving in flatbed trucks, dump trucks and utility trucks), City vehicles (utility trucks) and the general public (self-haul vehicles).

All incoming vehicles are weighed at the facility scale house. The operator maintains a database with traffic counts and waste receipts by customer type and jurisdiction of origin. *Table 2* provides a summary of traffic counts and tons delivered (refuse plus source-separated recyclables) for the period January 2005 through May 2006. The traffic count is expressed as average daily trips (ADT), or 1 trip inbound + 1 trip outbound for each load. Based on data provided by the landfill operator and traffic analysis performed as part of this initial study, about 59 percent of incoming landfill traffic is comprised of standard sized vehicles (self-haul) and the remaining 41 percent are mid-sized trucks (commercial packers, commercial contractors and landscapers).

2005 Month	Loads	Tons	Tons per Day	Average Daily Trins*
January (25 days)	1,747	4,043	162	140
February (24 days)	1,565	3,677	153	130
March (27 days)	2,186	7,100	263	162
April (26 days)	2,181	4,989	192	168
May (26 days)	2,042	4,327	166	157
June (26 days)	2,311	5,463	210	178
July (26 days)	2,196	4,318	166	169
August (27 days)	2,238	5,783	214	166
September (26 days)	2,234	6,375	245	172
October (26 days)	2,112	4,656	179	162
November (26 days)	1,931	4,400	169	149
December (27 days)	1,837	4,309	160	136
2005 averages:	2,048	4,953	190	157
2006 Month				
January (26 days)	2,157	5,416	208	166
February (24 days)	1,877	4,464	186	156
March (27 days)	1,814	4,915	182	134
April (25 days)	1,905	4,405	176	152
May (27 days)	2,241	4,856	180	166
2006 YTD averages:	1,999	4,811	186	155

TABLE 2. PASO ROBLES LANDFILL HISTORIC TRAFFIC COUNT

* Average daily trips – 1 trip inbound + 1 trip outbound for each load. Data includes refuse and recyclable materials deliveries. Note: the permit revision would apply to waste disposal vehicles only.

<u>Anticipated Deliveries by Vehicle Type</u>. Assuming traffic utilizing the site will increase proportionally with waste generation in the service area, the applicant estimates an <u>average</u> of 165 to 170 vehicles per day will utilize the facility, for the proposed permit increase to 75,000 tpy. Estimates of anticipated deliveries by vehicle type for the proposed daily intake of 450 tpd are provided in *Table 3*.

	TABLE 3.	FORECASTED	LANDFILL	TRAFFIC,	450 TPD	LIMIT
--	----------	------------	----------	----------	---------	-------

Vehicle Type	Tons per Day $\#$	Average Daily Trips*
Self-haul (general public)	43	78
Commercial compactor and roll-off trucks	333	60
Self-haul commercial	44	24
Long-haul transfer/trailer	30	2
Total	450	165

[#] Average over 6-day week, Monday through Saturday. Excludes recyclable materials deliveries

* Average daily trips -1 trip inbound +1 trip outbound for each load.

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The average daily trip estimates in Table 3 were used as the basis of traffic analyses and were prepared based on reasonably-foreseeable conditions and the following assumptions:

- Refuse delivery payloads by vehicle type will not significantly change.
- The relative percentage of wastes delivered by self-haul vehicles will decrease, and franchised waste haulers will serve a greater percentage of the disposal needs in the wasteshed area due to population and economic growth. It is assumed that 40 percent of the incoming traffic will be via self-haul vehicles from the general public, as opposed to 59 percent currently.
- Up to 2 loads per day will be delivered in long-haul transfer trailer vehicles, with average payload capacity of 20 tons per load. These vehicles would originate from out-of-county waste transfer stations, most likely from the east or south. Deliveries would be Monday through Friday only.

The above average trip forecasts assume reasonably-foreseeable changes in mid- and long-term waste delivery patterns to the landfill (i.e., a transition from reliance on self-haul to collection service providers). It is expected that in the near term, traffic distribution by vehicle type will be similar to current patterns. Traffic impact analyses have been performed (*Appendix A*, also see below) to reflect these existing conditions plus forecasted average daily maximum deliveries for 450 tpd. Note that daily traffic peaks at landfill sites can be highly variable based on time of year, special events and other considerations, and for the Paso Robles landfill, may exceed the average values shown in Table 3 and Appendix A.

<u>Site Access</u>. The majority of incoming waste delivery vehicles now originate from the west and must turn left from Highway 46 onto the landfill access road. This is not expected to change. The landfill access road is 0.35 miles long and during peak incoming traffic periods, this roadway is sufficient to accommodate queuing without vehicles having to wait on Highway 46 (PWS, 2003). Based on typical scale house transaction times, backups onto Highway 46 are not anticipated with the change in permit tonnages.

Highway 46 is currently two lanes (one in each direction). CalTrans plans to increase the roadway from two to four lanes west of the landfill entrance. Funds have been budgeted and construction is expected to commence in July 2010 (CalTrans, 2006). The highway widening project will include a standard intersection at the Highway 46 (Eastbound) / Union Road intersection with left-turn lanes on Highway 46 Eastbound for turning onto Union Road.

<u>Traffic and Circulation Study</u>. The firm Associated Transportation Engineers (ATE) was retained to assess potential impacts of the proposed project on Highway 46 and the landfill access road. The full report is provided in *Appendix A*. The evaluation addressed existing and future incoming waste delivery scenarios, including the proposed maximum daily permit limit of 450 tpd.

In transportation engineering the ability of a roadway system to carry traffic is expressed in terms of "Levels of Service" (LOS) at intersections. LOS "A" through "F" are used, with LOS "A" indicating very good traffic operations and LOS "F" indicating poor operations. Full definitions are provided in the Associated Transportation Engineers report. For the 450 tpd scenario and assuming CalTrans improvements are completed, the analysis showed that the segment of Highway 46 eastbound adjacent to Union Road is forecast to operate at LOS "A" during the morning peak hours

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(Year 2022 forecast) and the Highway 46 eastbound/Union Road intersection is forecast to operate at LOS "B" during the morning peak hours of waste delivery. For existing conditions (2-lane section of highway and proposed 450 tpd average traffic count), Highway 46 eastbound is forecast to operate at LOS "C". San Luis Obispo County thresholds state that LOS "C" is the standard for unincorporated rural areas. Thus potential traffic and circulation associated with the permit revision are not expected to unacceptably impede conditions.

Traffic impact analyses were prepared based on forecasted average daily maximum vehicle trips for 450 tpd. As stated above, peak traffic volume at landfills can be highly variable. It is conservatively estimated that peak traffic volume could be double the values shown in Table 3 (330 incoming vehicles) without downgrading the roadway LOS estimates cited above (ATE, September 2006).

<u>On-Site Traffic Controls</u>. All traffic will stop at the scale house where loads are visually inspected and appropriate fees are collected. Vehicles will then proceed to the tipping area as directed by the gate attendant. Those vehicles will follow marked access roads to the tipping area (also known as the landfill "working face") and are directed to appropriate unloading spaces by landfill spotters or equipment operators. Commercial packer and roll-off trucks are separated from self-haul and public customers at the working face. After unloading, customers exit the disposal area using the same route used to enter. Vehicles requiring empty weight for fee purposes cross over the scale, or proceed to the right of the scale house and exit the site via the paved access road.

Waste Compaction and Cover Placement--

Waste compaction and cover placement operations will continue as per current practices, described as follows. Discharged waste loads are visually inspected for hazardous or prohibited materials at the working face. (Details on hazardous/prohibited waste identification, handling and removal are also provided in the *Report of Disposal Site Information* document referenced above.) Wastes are then spread with a crawler dozer in horizontal lifts across the 75- to 100-foot wide working face area. The refuse dozer or compactor then makes 3 to 5 passes over the lift to compact the wastes to maximum density.

At the end of each working day, the outer slopes of the working face area are covered with soil excavated from future waste disposal cells, which serve as borrow areas. This allows future waste cells to be fully-excavated while providing for daily soil cover needs. The remainder of the waste lift is covered using a series of tarps, approved for use as an alternate daily cover (ADC) by the CIWMB. The City may elect to utilize other types of ADC, such as processed green or other materials, in accordance with the requirements of CCR Title 27, Section 20690.

Landfill Equipment—

On-site equipment used to support daily landfill operations is as follows:

- 1 Komatsu D66L crawler/dozer
- 1 Caterpillar (CAT) 826C compactor
- 1 CAT 953 track loader
- 1 CAT 623B scraper
- 1 Ford 8000N, 4,000-gallon water truck
- 1 Ford F700 utility truck
- 2 Roll-off chassis utility trucks

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According to PWS, the landfill operator, existing resources are sufficient to accommodate additional waste deliveries of up to 450 tpd and no changes to landfill staffing or equipment use are planned.

Estimated Site Life

As of December 31, 2005, approximately 1.8 million tons disposal capacity remained within the permitted landfill footprint, for the approved final grades (PWS, 2005). This estimate is based on a calculation of remaining airspace volume (via comparison of existing and final grades), and industry conversion figures for in-place waste density.

Based on information in the preliminary closure/post-closure maintenance document cited above, remaining landfill capacity will not be exhausted until year 2034 (PWS, 2003). For the proposed permit revision allowing disposal of up to 75,000 tpy, remaining capacity would be exhausted in approximately year 2029. Thus site life could be reduced by up to 5 years. This is a worst-case scenario and assumes the annual disposal rate would remain constant at 75,000 tpy beginning with the permit revision. Actual disposal rates are forecasted to increase between 3 and 4 percent per year over the current rate of approximately 48,500 tpy, commensurate with population and economic growth in the area. Thus the reduction in site life will likely be less than 5 years.

8. ENVIRONMENTAL SETTING:

Project Site:

- Land Use: The site is located on an approximate 80-acre parcel which was annexed to the City of Paso Robles in 1972. Of the 80 acres, approximately 31 have been used for landfilling. At final build-out as currently permitted, the waste footprint will occupy approximately 65 acres. The remaining 17 acres will be left undisturbed as buffer area. The site is designated for Public Facilities (PF) use.
- Topography: Landfill operations are currently confined to the southwestern portion of the property. Completed slopes in the fill areas range in steepness up to 3:1 (horizontal: vertical). Other disturbed areas are used for soil excavation, and surface water sedimentation basins (refer to *Figure 3, Site Plan*).

The northern portion of the site is a relatively flat plateau. A natural drainage course originates along the east side of the site and drains to the north.

Vegetation: Undisturbed areas of the site are covered with native grasses. Oak trees are located in the northern and northeastern end of the site and on the banks of drainage courses.

Surrounding Properties:

The Paso Robles Landfill is surrounded by agricultural land uses – vineyards, row crops and grazing. Properties surrounding the site are zoned "AG" – agriculture (San Luis Obispo County General Plan).

9. OTHER AGENCIES WHOSE APPROVAL IS REQUIRED (AND PERMITS NEEDED):

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In addition to approval for the proposed permit revision to be considered by the Paso Robles City Council, the applicant will also be required to obtain or provide the following:

1. Solid Waste Facilities Permit, issued by the CIWMB.

10. PERSONS PARTICIPATING IN THE PREPARATION OF THE INITIAL STUDY:

Ed Gallagher City of Paso Robles Community Development Services Department (805) 237-3970

Joseph Miller SCS Engineers (Landfill Engineering Consultant) (925) 426-0080

Richard Pool Associated Transportation Engineers (Traffic Consultant) (805) 687-4418

11. RELATED ENVIRONMENTAL DOCUMENTATION:

City of Paso Robles, Negative Declaration, Paso Robles Landfill - EIS 92002, January 1992.

City of Paso Robles, Initial Study/Mitigated Negative Declaration, Paso Robles Landfill Changes to Operational Standards, September 1997.

Associated Transportation Engineers, Paso Robles Landfill Project, San Luis Obispo County California, Traffic and Circulation Study, June 29, 2006 (*Appendix A*).

12. CONTEXT OF ENVIRONMENTAL ANALYSIS FOR PROJECT:

The project to be evaluated by this Initial Study is the incremental change in daily permissible tonnage from 250 to 450 tons per day and from 69,000 tons per year to 75,000 tons per year. Environmental Review for the 250 tons per day and 69,000 tons per year was conducted in 1999.

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ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or is "Potentially Significant Unless Mitigated," as indicated by the checklist on the following pages.

□ Land Use & Planning	□ Transportation/Circulation	□ Public Services		
□ Population & Housing	□ Biological Resources	□ Utilities & Service Systems		
□ Geological Problems	□ Energy & Mineral Resources	□ Aesthetics		
□ Water	□ Hazards	□ Cultural Resources		
□ Air Quality	□ Noise	□ Recreation		
	□ Mandatory Findings of Signifi	Mandatory Findings of Significance		

DETERMINATION

(To be completed by the Lead Agency)

On the basis of this initial evaluation:

I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION will be prepared.

I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

I find that the proposed project **MAY** have a significant effect(s) on the environment, but one or more effects (1) have been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) have been addressed by mitigation measures based on the earlier analysis as described on attached sheets, if the effect is a "potentially significant impact" or is "potentially significant unless mitigated." An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effect(s) that remain to be addressed.

I find that although the proposed project could have a significant effect(s) on the environment, there WILL NOT be a significant effect in this case because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project. (See item #11 above, for a specific reference to that EIR.)

Signature

September 12, 2006

Date

Ed Gallagher

Printed Name

Housing Programs Manager

Title

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EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to the project. A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards.
- 2. All answers must take account of the whole action involved. Answers should address off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. "Potentially Significant Impact" is appropriate, if an effect is significant or potentially significant, or if the lead agency lacks information to make a finding of insignificance. If there are one or more "Potentially Significant Impact" entries when the determination is made, preparation of an Environmental Impact Report is warranted.
- 4. Potentially Significant Impact Unless Mitigated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). Earlier analyses are discussed in Section XVII at the end of the checklist.
- 6. References to information sources for potential impacts (e.g., general plans, zoning ordinances) have been incorporated into the checklist. A source list has been provided at the end of the checklist. Other sources used or individuals contacted have been cited in the respective discussions.
- 7. The following checklist has been formatted after Appendix I of Chapter 3, Title 14, California Code of Regulations, but has been augmented to reflect the needs and requirements of the City of Paso Robles.

(Note: Standard Conditions of Approval - The City imposes standard conditions of approval on projects which are considered to be components of or modifications to the project, some of these standard conditions also result in reducing or minimizing environmental impacts to a level of insignificance. However, because they are considered part of the project, they have not been identified as mitigation measures. For the readers' information, a list of applicable standard conditions identified in the discussions has been provided as an attachment to this document.)_ SAMPLE QUESTION:

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>Would the proposal result in or expose people to potential impacts involving:</i>				
Landslides or Mud flows? (Sources: 1, 6)		\square	\square	
Discussion: The attached source list explains that 1 is the Paso Robles General Plan and 6 is a topographical map of the area which show that the area is located in a flat area. (Note: This response probably would not require further explanation).				

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IS	SUE	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
I.	LA	AND USE AND PLANNING. Would the Proposal:				
	a)	Conflict with general plan designation or zoning? (Source: Paso Robles Zoning Code.)				
		Discussion: The landfill use of the property is consistent with the Plan horizon is 2025 and its "build-out" depends upon ability to	he City's Gene o operate the la	eral Plan and Zor andfill to that yea	ning Code. Th ar and/or beyo	e General nd.
	b)	Conflict with applicable environmental plans or policies adopted by agencies with jurisdiction over the project?				V
		Discussion: The project consists of an application to the CIWM hours of operation). The City of Paso Robles is not aware of an CIWMB.	IB to increase the second seco	the daily rate of h environmental	use of the land policies adopt	Ifill (and ted by the
	c)	Be incompatible with existing land use in the vicinity?				\checkmark
		Discussion: The landfill is surrounded by agricultural land use are less than one unit per 20 acres.	s (primarily gra	azing and vineya	ards). Residen	tial densities
	d)	Affect agricultural resources or operations (e.g., impacts to soils or farmlands, or impacts from incompatible uses)?				\checkmark
		Discussion: The landfill has operated for several decades with anticipated from the proposed permit revision.	out impacts to	surrounding agr	icultural uses a	and none are
	e)	Disrupt or divide the physical arrangement of an established community (including a low-income or minority community)?				V
		Discussion: See response to items Ia)-d), above.				
II.	PC	PULATION AND HOUSING. Would the proposal:				
	a)	Cumulatively exceed official regional or local population projections?				\checkmark
		Discussion: The project will not generate demand for new hou needs of the growing population.	sing. The prop	posal is to accom	modate waste	disposal
	b)	Induce substantial growth in an area either directly or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)?				
		Discussion: This project will not generate demand for new gro	wth.			
	c)	Displace existing housing, especially affordable housing?				V
		Discussion. The project will not displace one cristing or place	ad housing			

Discussion: The project will not displace any existing or planned housing.

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ISSUE	ES (and Supporting Information Sources): EOLOGIC PROBLEMS. Would the proposal result in expose people to potential impacts involving:	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Fault rupture?				\checkmark
	Discussion: No changes in landfill permit boundaries, f Thorough geologic, seismic and hydrogeologic analyses were p and approval. See Safety Element of the General Plan and the in the "Earlier Analysis and Background Materials Section of the	ootprint area erformed as pa General Plan is document,	or interim and art of the origina Environmental F following this ch	final grades a il landfill perm Report (Referen necklist).	are proposed. hit application nces #1 and 3
b)	Seismic ground shaking?				\checkmark
	Discussion: See response to Item IIIa, above.				
c)	Seismic ground failure, including liquefaction?				\checkmark
	Discussion: See response to Item IIIa, above.				
d)	Seiche, tsunami, or volcanic hazard?				\checkmark
	Discussion: See response to Item III a), above. The project site tsunami, or volcanic hazards.	is not located	in an area ident	ified at risk fo	r seiche,
e)	Landslides or Mud flows?				\checkmark
	Discussion: The topography of the area is such that the project The landfill is designed and operated to prevent landslides onto footprint, interim or final grades are proposed as part of the per	site is not sub adjacent prop nit revision.	ject to landslides erties. No chang	s from other pr ges to the perm	operties. hitted landfill
f)	Erosion, changes in topography or unstable soil conditions from excavation, grading, or fill?				\checkmark
	Discussion: This project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration. (Referen Materials Section of this document, following this checklist).	type or intens nces #4 in the	ity or developm "Earlier Analysi	ent footprint b s and Backgro	eyond that und
g)	Subsidence of the land?				
	Discussion: See response to Item III f) above.				

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ISSUE	\mathbf{ES} (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
h)	Expansive soils?				
	Discussion: : See response to Item III f) above.				
i)	Unique geologic or physical features?				\checkmark
	Discussion: : See response to Item III f) above.				
IV.W	ATER. Would the proposal result in:				
a)	Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?				
	Discussion: No changes in landfill footprint, interim or final gr not cause any changes to land use type or intensity or developm Negative Declaration.	ades, or draina aent footprint b	ge patterns are peyond that desc	proposed. The ribed in the 19	project will 97 Mitigated
b)	Exposure of people or property to water related hazards such as flooding?				\checkmark
	Discussion: This project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration.	e type or intens	sity or developm	ent footprint b	eyond that
c)	Discharge into surface waters or other alteration of surface water quality (e.g. temperature, dissolved oxygen, turbidity)?				\checkmark
	Discussion: See response to Items IV a) and b) above.				
d)	Changes in the amount of surface water in any water body?				\checkmark
	Discussion: See response to Items IV a) and b) above.				
e)	Changes in currents, or the course or direction of water movement?				
	Discussion: See response to Items IV a) and b) above.				
f)	Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations or through substantial loss of groundwater recharge capability?				V
	Discussion: See response to Items IV a) and b) above.				
g)	Altered direction or rate of flow of groundwater?				\checkmark
	Discussion: See response to Items IV a) and b) above.				

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ISSU	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
h)	Impacts to groundwater quality?				\checkmark
	Discussion: See response to Items IV a) and b) above.				
i)	Substantial reduction in the amount of groundwater otherwise available for public water supplies?				
	Discussion: See response to Items IV a) and b) above.				
V. A	IR QUALITY. Would the proposal:				
a)	Violate any air quality standard or contribute to an existing or projected air quality violation? (Source: 10)				\checkmark

Discussion: The San Luis Obispo County Air Pollution Control District (APCD) has published guidelines for assessing the air quality impacts for projects subject to CEQA review (April 2003). The APCD has published thresholds for pollutant emissions to determine if a project's air quality impacts are significant or insignificant, which type of environmental document is needed for CEQA, and whether the project is subject to APCD review.

A preliminary evaluation of potential air quality impacts associated with the proposed landfill Solid Waste Facility Permit revision was performed for comparison with the APCD's published thresholds of significance. The evaluation considered vehicle exhaust and particulate matter emissions from waste delivery vehicles and vehicle roadway use. Results of the evaluation are provided in *Appendix B*. Estimated project-related daily pollutant emissions are less than APCD threshold limits, and are considered insignificant.

Further, the proposed project is consistent the APCD's Clean Air Plan and County General Plan. Based on this overall conformity status and the above, the project is not expected to have any significant cumulative air quality impacts or contribute to violations of air quality standards or permit conditions. (Refer to discussion in *Appendix B*).

b) Expose sensitive receptors to pollutants? (Source: 10) П П П $\mathbf{\nabla}$ Discussion: No changes are proposed to existing types of wastes accepted for disposal, waste disposal methods or operations, permitted landfill footprint areas or grades, or environmental control systems (including landfill gas collection and control system). The landfill will be operated in accordance with all air quality requirements, including Title V and Permit No. 70-5, issued by the APCD. c) Alter air movement, moisture, or temperature? (Source: 10) П П П $\mathbf{\nabla}$ Discussion: See response to Item V b) above. Create objectionable odors? (Source: 10) d) П П \mathbf{N} П

Discussion: See response to Item V b) above. The landfill will be operated in accordance with all air quality requirements, including the Title V permit and Permit No. 70-5, issued by the APCD.

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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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VI. TRANSPORTATION/CIRCULATION. Would the

proposal result in:

a) Increased vehicle trips or traffic congestion?

Discussion: The firm Associated Transportation Engineers was retained to assess potential impacts of the proposed project on Highway 46 and the landfill access road. The full report is provided in *Appendix A*; refer also to Section 7 Project Description text above. The evaluation addressed existing and future incoming waste delivery scenarios, including the proposed average maximum daily permit limit of 450 tpd.

For the anticipated future traffic delivery scenario (450 tpd) and assuming proposed CalTrans improvements to Highway 46 are completed, the analysis showed that the segment of Highway 46 eastbound adjacent to Union Road is forecast to operate at level of service "A" and the Highway 46 eastbound/Union Road intersection is forecast to operate at level of service "B" during the morning peak hours of waste delivery. Under worst-case conditions (Appendix A, existing plus proposed maximum day), Highway 46 eastbound is expected to operate at level of service "C". San Luis Obispo County thresholds state that level of service "C" is the standard for unincorporated rural areas. Thus potential waste delivery vehicle traffic and circulation associated with the permit revision are not expected to unacceptably impede conditions.

A supplemental analysis was also performed assuming CalTrans widening of Highway 46 to conventional 4-lane would not be completed. Refer to *Appendix A*, letter report dated August 17, 2006. This is an unlikely scenario, since highway improvement funds have been budgeted and the work is scheduled. Nonetheless, the analysis showed that in year 2022 (15 year planning horizon) Highway 46 eastbound would operate at level of service "D" with or without the project if road widening is not completed. The permit revision project would not significantly degrade roadway operations under this scenario.

b)	Hazards to safety from design features (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				\checkmark
	Discussion: No changes in roadway design are proposed as a res	sult of the proj	ect.		
c)	Inadequate emergency access or inadequate access to nearby uses?				V
	Discussion: This project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration.	type or intensi	ty, or developm	ent footprint be	eyond that
d)	Insufficient parking capacity on-site or off-site?				\checkmark
	Discussion: No changes in employee parking conditions are anti-	cipated.			
e)	Hazards or barriers for pedestrians or bicyclists?				\checkmark
	Discussion: The landfill is not used by pedestrians or cyclists, n by sidewalks or bike lanes.	or is it located	l in an urban set	ting that would	be served
f)	Conflicts with adopted policies supporting alternative transportation (e.g., bus turnouts, bicycle racks)?				V
	Discussion: The landfill is not used by persons using these meth	ods of transpo	rtation evelists	nor is it locate	d in an

Discussion: The landfill is not used by persons using these methods of transportation, cyclists, nor is it located in an

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ISSUI	\mathbf{ES} (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
	urban setting that would be served by buses or bike lanes.				
g)	Rail, waterborne or air traffic impacts?				
	Discussion: The landfill permit revision and operations would n which are located several miles from the landfill.	ot have any in	npact on these m	nodes of transp	ortation,
VII. E res	BIOLOGICAL RESOURCES. Would the proposal ult in impacts to:				
a)	Endangered, threatened or rare species or their habitats (including but not limited to: plants, fish, insects, animals, and birds)?				
	Discussion: The project will not cause any changes to land use t described in the 1997 Mitigated Negative Declaration.	type or intensit	ty or developme	nt footprint be	yond that
b)	Locally designated species (e.g., heritage trees)?				\checkmark
	Discussion: See response to Item VII a) above.				
c)	Locally designated natural communities (e.g., oak forest, coastal habitat, etc.)?				
	Discussion: See response to Item VII a) above.				
d)	Wetland habitat (e.g., marsh, riparian and vernal pool)?				
	Discussion: See response to Item VII a) above.				
e)	Wildlife dispersal or migration corridors?				\checkmark
	Discussion: See response to Item VII a) above.				
VIII. the	ENERGY AND MINERAL RESOURCES. Would proposal:				
a)	Conflict with adopted energy conservation plans?				\checkmark
	Discussion: The project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration. Energy economic growth would be expended regardless (i.e., at other la	type or intensi resources for andfills) even i	ty or developme waste disposal d f the project is r	nt footprint be lue to population not approved.	yond that on and
b)	Use non-renewable resource in a wasteful and inefficient manner?				\checkmark
	Discussion: See response to Item VIII a) above.				

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ISSUI	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Result in the loss of availability of a known mineral resource that would be of future value to the region and the residents of the State?				V
	Discussion: See response to Item VIII a) above.				
IX.H	AZARDS. Would the proposal involve:				
a)	A risk of accidental explosion or release of hazardous substances (including, but not limited to: oil, pesticides, chemicals or radiation)?				V
	Discussion: No changes are proposed to existing types of waste operations, hazardous materials screening and handling operation environmental control systems (including landfill gas collection	s accepted for ons, permitted and control s	disposal, waste landfill footprin ystem).	disposal metho t areas or grad	ods or es, or
b)	Possible interference with an emergency response plan or emergency evacuation plan?				
	Discussion: See response to Item IX a) above.				
c)	The creation of any health hazard or potential hazards?				\checkmark
	Discussion: See response to Item IX a) above.				
d)	Increased fire hazard in areas with flammable brush, grass, or trees?				\checkmark
	Discussion: See response to Item IX a) above.				
X. N	OISE. Would the proposal result in:				
a)	Increases in existing noise levels?				\checkmark
	Discussion: There are no sensitive noise receptors in the vicinit day to the landfill that would be allowed under the permit revisi at the property line are expected to be within allowable limits of during the proposed hours of operation. See Noise Element of the Impact Report (References #1 and #3 in the "Earlier Analysis at following this checklist).	y of the landfi on would not f the County N the General Pl nd Background	ll. The total nur generate adverse loise Element fo an and the Gene d Materials Sect	nber of vehicle noise levels. r construction ral Plan Envire ion of this doc	e trips per Noise levels equipment onmental ument,
b)	Exposure of people to severe noise levels?				

Discussion: See response to Item X a) above.

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IS	SUE	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
XI	[. P upo any	UBLIC SERVICES. Would the proposal have an effect on, or result in a need for new or altered government services in <i>y</i> of the following areas:				
	a)	Fire protection?				
		Discussion: The project would not generate any individual or c fire and police protection, schools, public facilities, roads or oth	cumulative imp ner services.	pact to any city o	or school servio	ces, including
	b)	Police Protection?				\checkmark
		Discussion: See response to Item XI a) above.				
	c)	Schools?				\checkmark
		Discussion: See response to Item XI a) above.				
	d)	Maintenance of public facilities, including roads?				\square
		Discussion: See response to Item XI a) above.				
	e)	Other governmental services?				\checkmark
		Discussion: See response to Item XI a) above.				
XI	I I. U pro sub	TILITIES AND SERVICE SYSTEMS. Would the posal result in a need for new systems or supplies, or ostantial alterations to the following utilities:				
	a)	Power or natural gas?				\checkmark
		Discussion: No material changes to day-to-day landfill operation generate any individual or cumulative impact to any utilities, co	ons or utility u	se are envisione or service syster	d. The project ns.	would not
	b)	Communication systems?				\checkmark
		Discussion: See response to Item XII a) above.				
	c)	Local or regional water treatment or distribution facilities?				
		Discussion: See response to Item XII a) above.				
	d)	Sewer or septic tanks?				\checkmark
		Discussion: See response to Item XII a) above.				

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ISSUE	2S (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
e)	Storm water drainage?				
	Discussion: See response to Item XII a) above. No change in fi or final drainage systems are proposed.	ll sequencing of	operations, land	fill final grades	s, or interim
f)	Solid waste disposal?				\checkmark
	Discussion: The project is being undertaken to accommodate the change in ultimate site capacity is proposed. However, an accel site life by up to 5 years compared to current forecasts. Under a in approximately 24 years, by 2029. State solid waste regulation years disposal capacity. The County General Plan requires a pl life exceeds these required timeframes and no significant impact	the waste dispose lerated waste do a worst-case so ns require that lanning horizo ts to long-term	sal needs of the lisposal rate will cenario, landfill s communities de n to year 2025. disposal capaci	Paso Robles ar reduce anticip site life could b emonstrate a m The anticipate ity plans are ar	ea. No pated landfill pe exhausted inimum 15 d project site atticipated.
g)	Local or regional water supplies?				\checkmark
	Discussion: See response to Item XII a) above.				
XIII.	AESTHETICS. Would the proposal:				
a)	Affect a scenic vista or scenic highway?				\checkmark
	Discussion: The project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration.	type or intensi	ity or developme	ent footprint be	eyond that
b)	Have a demonstrable negative aesthetic effect?				\checkmark
	Discussion: No change in landfill fill sequencing operations, in cause any changes to land use type or intensity or development Negative Declaration.	terim or final g footprint beyo	grades is proposind that described	ed. The projec d in the 1997 N	et will not ∕litigated
c)	Create light or glare?				\checkmark
	Discussion: The project will not cause any changes to land use t described in the 1997 Mitigated Negative Declaration.	type or intensit	ty or developme	nt footprint be	yond that

XIV.CULTURAL RESOURCES. Would the proposal:

a) Disturb paleontological resources?

Discussion: No change in permitted landfill boundaries, excavation areas, or permitted landfill footprint area are proposed. The project will not cause any changes to land use type or intensity or development footprint beyond that described in the 1997 Mitigated Negative Declaration.

b) Disturb archaeological resources?

Discussion: See response to Item XIV a) above.

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ISSUI	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Affect historical resources?				
	Discussion: See response to Item XIV a) above.				
d)	Have the potential to cause a physical change which would affect unique ethnic cultural values?				V
	Discussion: See response to Item XIV a) above.				
e)	Restrict existing religious or sacred uses within the potential impact area?				\checkmark
	Discussion: See response to Item XIV a) above.				
XV.R	ECREATION. Would the proposal:				
a)	Increase the demand for neighborhood or regional parks or other recreational facilities?				
	Discussion: The project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration.	type or intensi	ty or developme	nt footprint be	yond that
b)	Affect existing recreational opportunities?				\checkmark
	Discussion: See response to Item XV a) above.				
XVI.N	MANDATORY FINDINGS OF SIGNIFICANCE.				
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				V
	Discussion: The project will not cause any changes to land use described in the 1997 Mitigated Negative Declaration.	type or intensi	ty or developme	nt footprint be	yond that
b)	Does the project have the potential to achieve short-term, to the disadvantage of long-term environmental goals?				\checkmark

Discussion: See response to Item XII f) above. The project will achieve short-term goals for accommodating waste disposal needs of the community, without significantly sacrificing long-term disposal capacity plans.

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ISSUE	ES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)				
	Discussion: The proposed project will result in no impact or les Refer to responses to Items V and VI above. No significant cur to existing or future landfill operations.	s than signific nulative impac	cant impacts on t ets in these issue	raffic and air c areas are expe	quality. ected relative
d)	Does the project have environmental effects which will cause				\checkmark

Discussion: No significant impacts have been identified via this Initial Study process. No anticipated environmental issues that would cause substantial adverse effects on humans, either directly or indirectly are envisioned.

substantial adverse effects on human beings, either directly or

indirectly?

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EARLIER ANALYSIS AND BACKGROUND MATERIALS.

Earlier analyses may be used where, pursuant to tiering, program EIR, or other CEQA process, one or more effects have been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c)(3)(D).

Earlier Documents Prepared and Utilized in this Analysis and Background / Explanatory Materials

<u>Reference #</u>	Document Title	Available for Review at:
1	City of Paso Robles General Plan	City of Paso Robles Community Development Department 1000 Spring Street Paso Robles, CA 93446
2	City of Paso Robles Zoning Code	Same as above
3	City of Paso Robles Environmental Impact Report for General Plan Update	Same as above
4	Paso Robles Landfill Expanded Initial Study	Same as above
5	City of Paso Robles Housing Element	Same as above
6	City of Paso Robles Noise Element	Same as above
7	San Luis Obispo County Air Pollution Control District CEQA Guidelines for Impact Thresholds	APCD 3433 Roberto Court San Luis Obispo, CA 93401
8	San Luis Obispo County – Land Use Element	San Luis Obispo County Department of Planning County Government Center San Luis Obispo, CA 93408

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Summary of Mitigation Measures

Description of Impact

Mitigation Measure

N/A

N/A

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APPENDIX A

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PASO ROBLES LANDFILL PROJECT SAN LUIS OBISPO COUNTY, CALIFORNIA

TRAFFIC AND CIRCULATION STUDY



SCS Engineers 6601 Knoll Center Parkway, Suite 140 Pleasanton, CA 94566





ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110-1686 • (805) 687-4418 • FAX (805) 682-8509

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Richard L. Pool, P.E. Scott A. Schell, AICP

June 29, 2006

Joseph J. Miller SCS Engineers 6601 Knoll Center Parkway, Suite 140 Pleasanton, CA 94566

TRAFFIC AND CIRCULATION STUDY FOR THE PASO ROBLES LANDFILL PROJECT, SAN LUIS OBISPO COUNTY, CALIFORNIA

Associated Transportation Engineers (ATE) is pleased to submit the following traffic and circulation study for the Paso Robles Landfill Project. It our understanding that the contents of this study will be used for environmental review.

We appreciate the opportunity to assist you with the project.

Associated Transportation Engineers

or

By:

Richard L. Pool, PE President


EXECUTIVE SUMMARY

The Paso Robles Landfill is located in the unincorporated area of San Luis Obispo County adjacent to SR 46(E) about 5 miles west of the City of Paso Robles. The proposal is to revise the landfill's operating permit to change the operating hours and to increase intake at the landfill. The existing permit allows the landfill to operate from 8:00 A.M. to 3:00 P.M. Monday through Saturday; and from 8:00 A.M. to 2:00 P.M. on Sundays. The permit application would allow the landfill to operate from 7:00 A.M. to 3:00 P.M. Monday through Saturday; and from 7:00 A.M. to 2:00 P.M. on Sundays. The permit application would allow the landfill to operate from 7:00 A.M. to 3:00 P.M. Monday through Saturday; and from 7:00 A.M. to 2:00 P.M. on Sundays. The existing permit allows landfill intake up to 69,000 tons per year, with a maximum of 250 tons per day (TPD). The proposed permit would increase intake to 75,000 tons per year, with a maximum of 450 TPD.

The traffic study assesses potential impacts of the project on SR 46(E) adjacent to the site and at the SR 46(E)/Union Road intersection, which provides direct access for the landfill. The operational analysis focuses on the A.M. peak hour period, since the landfill closes as 3:00 P.M. and therefore does not generate traffic during the P.M. peak hour period.

The segment of SR 46(E) adjacent to Union Road operates at LOS C during the A.M. peak hour period and the SR 46(E)/Union Road intersection operates at LOS B during the A.M. peak hour period.

The Proposed Maximum Day (450 TPD) scenario was selected for assessing potential impacts since it represents a high volume day when intake as the landfill is at its maximum (traffic would be lower on other days). The Future Maximum Day (450 TPD) scenario would result in 330 ADT and 33 A.M. peak hour trips generated at the landfill. The segment of SR 46(E) is forecast to operate at LOS C and the SR 46(E)/Union Road intersection operates at LOS B during the A.M. peak hour period with Existing + Future Maximum Day traffic.

Year 2022 was selected as the target date for developing the future baseline traffic forecasts. The operational analyses found that the segment of SR 46(E) adjacent to Union Road is forecast to operate at LOS A and the SR 46(E)/Union Road intersection is forecast to operate at LOS B during the A.M. peak hour period with Year 2022 and Year 2022 + Future Maximum Day (450 TPD) traffic. This traffic sceanario assumes completion of the Caltrans project to widen SR 46(E) to a four-lane conventional highway adjacent to the site (Caltrans staff indicated that the widening is scheduled for construction in Year 2010). The widening project will include a standard intersection at the SR 46(E)/Union Road intersection with left-turn lanes on SR 46(E) for turning onto Union Road.

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INTRODUCTION

The following report contains an analysis of the potential traffic and circulation impacts associated with the Paso Robles Landfill Project, located in the unincorporated area of San Luis Obispo County adjacent to SR 46(E) about 5 miles west of the City of Paso Robles. The report provides information relative to existing and future traffic conditions within the study area adjacent to the site. Potential impacts were evaluated using County impact criteria.

PROJECT DESCRIPTION

The proposal is to revise the landfill's operating permit to change the operating hours and to increase intake at the landfill. The existing permit allows the landfill to operate from 8:00 A.M. to 3:00 P.M. Monday through Saturday; and from 8:00 A.M. to 2:00 P.M. on Sundays (although the landfill currently does not operate on Sundays). The permit application would allow the landfill to operate from 7:00 A.M. to 3:00 P.M. Monday through Saturday; and form 7:00 A.M. to 2:00 P.M. on Sundays. The existing permit allows landfill intake up to 69,000 tons per year, with a maximum of 250 tons per day (TPD). The proposed permit would increase intake to 75,000 tons per year, with a maximum of 450 TPD.

STUDY METHODOLOGY AND IMPACT CRITERIA

Traffic operations are analyzed for the following scenarios: 1) Existing Conditions, 2) Existing Conditions + Permitted Maximum Day (250 TPD), and 3) Existing Conditions + Future Maximum Day (450 TPD), and Year 2022 + Future Maximum Day (450 TPD). The Proposed Maximum Day (450 TPD) scenario was selected for assessing potential impacts since it represents a high volume day when intake as the landfill is at its maximum (traffic would be lower on other days).

The traffic study assesses potential impacts of the project on SR 46(E) adjacent to the site and at the SR 46(E)/Union Road intersection, which provides direct access for the landfill. Existing and future traffic operations for the study-area facilities are assessed using the criteria outlined in the Highway Capacity Manual.¹ The operational analysis focuses on the A.M. peak hour period, since the landfill closes as 3:00 P.M. and therefore does not generate traffic during the P.M. peak hour period. San Luis Obispo County thresholds state that LOS C is the standard for rural areas and is therefore applied since the landfill is located in the unincorporated area of County.

¹Highway Capacity Manual, Transportation Research Special Report 209, National Research Council, 2000.

EXISTING CONDITIONS

Street Network

Regional access to the landfill is provided by SR 46(E), with local access provided by Union Road. A brief discussion of these facilities is provided below.

<u>SR 46(E)</u> is a four-lane divided highway between U.S. Highway 101 and Airport Road. SR 46(E) continues east of Airport Road as a two-lane highway, extending to the junction of SR 41 and beyond into the San Joaquin Valley.

<u>Union Road</u> is a two-lane public road that extends north and south of SR 46(E). The segment north of SR 46(E) provides access to the landfill. The intersection of SR 46(E)/Union Road is controlled by stop signs on Union Road. Left-turn lanes are provided in both directions on SR 46 at the intersection.

Existing Traffic Volumes

Existing traffic volumes for SR 46 were obtained from counts collected by Caltrans² and existing A.M. peak hour counts collected at the SR 46(E)/Union Road intersection by ATE for this study (count data is contained in Technical Appendix for reference). Figure 1 shows the existing traffic volumes within the study-area adjacent to the site.

Existing Levels of Service

The ability of a roadway system to carry traffic is most often expressed in terms of "Levels of Service" (LOS) at intersections. LOS A through F are used, with LOS A indicating very good operations and LOS F indicating poor operations. More complete level of service definitions for intersections are listed on Table 1.

² <u>Traffic Volumes on California State Highways</u>, California Department of Transportation, 2005.

Paso Robles Landfill Project Traffic and Circulation Study

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Table 1Level of Service Definitions

LOS	Definition
A	Low volumes with primarily free flow operations. Density is low and vehicles are almost completely unimpeded in their ability to maneuver within the traffic stream.
В	Reasonably free flow condition with free-flow speeds generally maintained. Maneuvering within the traffic stream is only slightly restricted.
С	Speeds still at or near free-flow. The ability to maneuver is more restricted by the increase in traffic volumes and lane changes require more vigilance on the part of the driver.
D	Approaching unstable traffic flow where small increases in volume could cause substantial delays. Freedom to maneuver within the traffic stream is noticeably limited. Comfort and convenience are low and minor incidents can be expected to create queuing.
E	Operations characterized by high density with little room to maneuver within the traffic stream at speeds that still exceed 50 mph. Any disruption to the traffic stream, such as vehicles changing lanes or entering from ramps, can cause a disrupted wave that propagates throughout the upstream traffic flow and produces serious breakdowns with extensive queuing.
F	Forced flow operations. Speeds are reduced substantially and stoppages may occur for short or long periods of time because of downstream congestion.

Existing traffic operations for SR 46(E) were assessed using the Two-Lane Highway criteria outlined in the Highway Capacity Manual. The segment of SR 46(E) adjacent to Union Road operates at LOS C during the A.M. peak hour period. Existing traffic operations for the SR 46(E)/Union Road intersection were assessed using the Unsignalized Intersection criteria outlined in the Highway Capacity Manual. The SR 46(E)/Union Road intersection operates at LOS B during the A.M. peak hour period. These service level meet the County's LOS C standard. It is noted that the HCM operational analysis accounts for heavy vehicles (trucks) using the study-area street system. For landfill traffic, about 59% is comprised of standard sized vehicles (self-haul vehicles such as pick-up trucks) and the remaining 49% are mid-sized trucks (commercial trash trucks, landscape, building contractors, etc.). Level of service worksheets are contained in Technical Appendix for reference.

EXISTING LANDFILL OPERATIONS

The existing permit allows for an annual tonnage of 69,000 tons, with a maximum of 250 tons per day. Intake at the landfill varies from day-to-day and month-to-month throughout the year. Historical data was obtained from the landfill operator to ascertain the daily intake and correlate the daily intake to the existing traffic levels. Table 2 shows the data for the period of January 2005 through May 2006.

2005 Month	Loads	Tons	Tons Per Day (TPD)	ADT ^a
January (25 Days)	1,747	4,042.59	161.70	140
February (24 Days)	1,565	3,676.93	153.21	130
March (27 Days)	2,186	7,100.83	262.99	162
April (26 Days)	2,181	4,989.10	191.89	168
May (26 Days)	2,042	4,327.30	166.43	157
June (26 Days)	2,311	5,463.51	210.14	178
July (26 Days)	2,196	4,318.33	166.09	169
August (27 Days)	2,238	5,782.57	214.17	166
September (26 Days)	2,234	6,374.79	245.18	172
October (26 days)	2,112	4,655.85	179.07	162
November (26 Days)	1,931	4,400.49	169.25	149
December (27 Days)	1,837	4,309.34	159.61	136
2005 Averages:	2,048	4,953.47	189.98	157
2006 Month	Loads	Tons	Tons Per Day (TPD)	ADT
January (26 Days)	2,157	5,415.74	208.30	166
February (24 Days)	1,877	4,463.87	185.99	156
March (27 Days)	1,814	4,915.45	182.05	134
April (25 Days)	1,905	4,405.31	176.21	152
May (27 Days)	2,241	4,855.60	179.84	166
2006 YTD Averages:	1,999	4,811.19	186.48	155

Table 2 Paso Robles Landfill - Historical Intake

^a Average Daily Trips = 1 trip inbound + 1 trip outbound for each load.

Paso Robles Landfill Project Traffic and Circulation Study



POTENTIAL IMPACTS

Existing + Future Maximum Day (450 TPD)

Traffic operations for the segment of SR 46(E) adjacent to Union Road and for the SR 46(E)/Union Road intersection were evaluated assuming the Existing + Future Maximum Day (450 TPD) traffic forecasts shown in Figure 3. The results show that the segment of SR 46(E) is forecast to operate at LOS C and the SR 46(E)/Union Road intersection operates at LOS B during the A.M. peak hour period.

The majority of landfill traffic (about 95%) originates from the west. There is a separate leftturn lane on SR 46(E) for left-turn onto Union Road. The length of the left-turn lane is approximately 415 feet with an 85-foot taper. The existing left-turn lane would accommodate the Existing + Future Maximum Day (450 TPD) traffic flows. The left-turn volumes is predicted at 16 vehicles during the peak hour period and the queue is forecast at less than 2 vehicles at any one time.

Year 2022 + Future Maximum Day (450 TPD)

Year 2022 was selected as the target date for developing the future baseline traffic forecasts. The target date represents 15 year beyond 2007, the year that the permit issuance is anticipated. Figure 4 shows the Year 2022 traffic forecasts for the study area and Figure 5 shows the Year 2022 + Future Maximum Day (450 TPD) traffic forecasts. The Year 2022 baseline traffic forecasts assume a 2% per year growth rate for traffic using SR 46(E), which was derived from Caltrans growth factors.

The traffic operational analysis for the study area street system assumes completion of the Caltrans project to widen SR 46(E) to a four-lane conventional highway (from the existing two-lane conventional highway) between Paso Robles and the SR 46(E)/SR 41 junction. Caltrans staff have indicated that the widening is scheduled for construction in Year 2010. The widening project will include a standard intersection at the SR 46(E)/Union Road intersection with left-turn lanes on SR 46(E) for turning onto Union Road.

The operational analyses found that the segment of SR 46(E) adjacent to Union Road is forecast to operate at LOS A and the SR 46(E)/Union Road intersection is forecast to operate at LOS B during the A.M. peak hour period with Year 2022 and Year 2022 + Future Maximum Day (450 TPD) traffic.







TECHNICAL APPENDIX

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ROADWAY AND INTERSECTION TRAFFIC COUNT DATA

LANDFILL TRAFFIC AND WASTE DELIVERY SCENARIOS

LEVEL OF SERVICE CALCULATION WORKSHEETS

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TRAFFIC COUNT DATA

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BAYMETRICS TRAFFIC RESOURCES

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BAYMETRICS TRAFFIC RESOURCES

INTERSECTION TURNING MOVEMENT SUMMARY



LANDFILL TRAFFIC AND WASTE DELIVERY SCENARIOS

LANDFILL TRAFFIC AND WASTE DELIVERY SCENARIOS PASO ROBLES LANDFILL

Jun-23-06

	Traffic - May 2006			Weights			
	# Loads per month	%	Avg. # Loads/day	Tons	<u>%</u>	Tons/load	
Cash customer (self-haul)	1,331	59%	49	727	15%	0.55	
Commercial - Compactor & Roll-off	667	30%	25	3,718	76%	5.57	
Self-haul commerical	243	11%	9	441	9%	1.81	
Total	2,241	100%	83	4,886	100%		
				181 tp	od-6		
2. Existing Scenario - Current Permit Limit	(250 tpd)						
Cash customer (self-haul)	1,839	59%	68	1,004	15%	0.55	
Commercial - Compactor & Roll-off	921	30%	34	5,136	76%	5.57	
Self-haul commerical	336	11%	12	609	9%	1.81	
Total	3,096	100%	115	6,750	100%		
				250 tp	od-6		
3. Future Scenario - 450 tpd Permit Limit (a	issume current tra	ffic /tonn	age distribution fo	or non-transfer	vehicles)	0.55	
Cash customer (self-haul)	3,089	59%	114	1,007	74%	5.57	
Commercial - Compactor & Roll-off	1,548	30%	57	8,629	/ 170	0.07	
Self-haul commerical	564	11%	21	1,024	0%	1.01	
Long-haul tractor-trailer	40	1%	2	800	/%	20.0	
Total	5,241	100%	195	12,140	100%		
				450 tp	od-6		
4. Future Scenario - 450 tpd Permit Limit (a	ssume nominal gr	owth in s	elf-haul traffic)				
Cash customer (self-haul)	2,115	40%	78	1,155	10%	0.55	
Commercial - Compactor & Roll-off	1,615	31%	60	9,000	74%	5.57	
Self-haul commerical	661	13%	24	1,200	10%	1.81	
Long-haul tractor-trailer	40	1%	2	800	7%	20.0	
Total	4,430	85%	165	12,155	100%		
				450 tp	d-6		

Notes/Assumptions;

 May 2006 traffic and waste receipt data provided by PWS
 Scenario 2 - (250 tpd permit limit) assumes traffic and tonnage distribution the same as current - May 2006.
 Scenario 3 - (450 tpd permit limit) assumes: Two long-haul transfer / trailer deliveries per day, 5 days per week, payload capacity 20 tons per load (per PWS) Traffic and tonnage distribution for cash customers, commercial compactor/roll-off vehicles and self-haul commercial the same as current (May 2006).

(4) Scenario 4 - (450 tpd permit limit) assumes:

Two long-haul transfer / trailer deliveries per day, 5 days per week, payload capacity 20 tons per load (per PWS) Self-haul traffic and tonnage will increase 15 percent over current daily maximum; franchised waste haulers will service disposal needs of landfill wasteshed area attributed to population and economic

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LEVEL OF SERVICE CALCULATION WORKSHEETS

TWO-WAY TWO-LANE HIGHWAY SEGMENT WORKSHEET								
General Information	LEMELLER.	Site Information		1. 1966				
Analyst DLD Agency or Company ATE Date Performed 6/26/2006 Analysis Time Period AM PEAK HOUR		Highway From/To Jurisdiction Analysis Year	SR 46E @ UNION RD-LANDFILL AC CALTRANS EXISTING	CESS				
Project Description:				110000000				
Input Data	140.00.000			<u> </u>				
Segment length, L ₁ mi	<u>tt</u> <u>tt</u> <u>h</u>	Show North Arrow	Class I highway Class II highway Terrain Image: Level Rolling Two-way hourly volume 675 veh/h Directional split 56 / 44 Peak-hour factor, PHF 0.88 No-passing zone 90 % Trucks and Buses , P _T 14 % % Recreational vehicles, P _R 4% Access points/ mi 8					
Average Travel Speed		1		1.2.2.2.2				
Grade adjustment factor, f _G (Exhibit 20-7)			1.00	<u></u>				
Passenger-car equivalents for trucks, E _T (Exhibit 20-9)			1.2					
Passenger-car equivalents for RVs, E _R (Exhibit 20-9)			1.0					
Heavy-vehicle adjustment factor, f _{HV} =1/ (1+ P _T (E _T -1)+P _R (E _R -1))			0.973					
Two-way flow rate ¹ , v _o (pc/h)=V/ (PHF * f _G * f _{HV})			789					
v_ * highest directional split proportion ² (pc/h)			442					
Free-Flow Speed from Field Measurement			Estimated Free-Flow Speed					
Field Measured speed, S _{FM} Observed volume, V _f Free-flow speed, FFS FFS=S _{FM} +0.00776(V _f / f _{HV})	mi/h veh/h mi/h	Base free-flow speed Adj. for lane width an Adj. for access points Free-flow speed, FFS	I, BFFS FM 60.0 d shoulder width3, fLS(Exhibit 20-5)s, fA(Exhibit 20-6)S(FSS=BFFS-fLS-fA)S 58.0	mi/h 1i/h 1i/h mi/h				
Adj. for no-passing zones, fpg (mi/h) (Exhibit 20-11)	<u></u>		2.9					
Average travel speed, ATS (<i>mi/h</i>) ATS=FFS-0.00776v _n -f _{nn}			49.0					
Percent Time-Spent-Following	1912-1918	an a constantin						
Grade Adjustment factor, f _G (Exhibit 20-8)			1.00					
Passenger-car equivalents for trucks, E _T (Exhibit 20-10)			1.1					
Passenger-car equivalents for RVs, E _R (Exhibit 20-10)			1.0					
Heavy-vehicle adjustment factor, f_{HV} =1/ (1+ $P_T(E_T-1)+P_R(E_R-1)$)			0.986					
Two-way flow rate ¹ , v_p (pc/h)=V/ (PHF * $f_G * f_{HV}$)			778					
v _p * highest directional split proportion ² (pc/h)			436					
Base percent time-spent-following, BPTSF(%)=100(1-e ^{-0.000879v} p)			49.5					
Adj. for directional distribution and no-passing zone, f _{d/hp} (%)(Exh. 2	20-12)		15.0					
Percent time-spent-following, PTSF(%)=BPTSF+f d/np			64.6					
Level of Service and Other Performance Measures	gressen (Leisen Stal)	나나 아이에 가지 않았다. 	C	A REALIZED OF T				
Volume to capacity ratio, $v/c=V_n/3,200$			0.25					
Peak 15-min veh-miles of travel, VMT ₁₅ (veh- <i>mi</i>)= 0.25L _t (V/PHF)			0					
Peak-hour vehicle-miles of travel, VMT ₆₀ (veh- <i>mi</i>)=V*L _t			0					
Peak 15-min total travel time, TT ₁₅ (veh-h)= VMT ₁₅ /ATS			0.0	and the second second second second				
Notes 1. If Vp >= 3,200 pc/h, terminate analysis-the LOS is F. 2. If biohest directional solit Vn>= 1,700 pc/h, terminated anlysis-the	e LOS is F.							
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	TW	O-WAY STOP	CONTR	OL SUN	IMARY			
General Information	n		Site I	nformat	lion			
Analyst Agency/Co. Date Performed Analysis Time Period	DLD ATE 6/26/2000 AM PEAH	5 {	Interse Jurisdi Analys	ection ction is Year		SR 46(E). CALTRAI EXISTING	/UNION R NS G	D
Project Description PA	SO LANDFILL							
East/West Street: SR 4	6(E)		North/S	South Stre	et: UNION	ROAD		
Intersection Orientation:	East-West		Study F	Period (hr	s): 1.00			
Vehicle Volumes ar	nd Adjustme	nts	CHHE.	DE DE			CHENNER.	
Major Street		Eastbound				Westbou	nd	
Movement	1	2	3		4	5		6
	L	Т	R		L	T		R
Volume (veh/h)	8	283	8		1	337		1
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	8	307	8		1	366		1
Percent Heavy Vehicles	40				4			
Median Type				Undivid	ed			
RT Channelized			0					0
Lanes	1	1	0		1	1		0
Configuration	L		TR		L			TR
Upstream Signal		0				0		
Minor Street		Northbound				Southbou	ind	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)	33	1	5		0	0		6
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	35	1	5		0	0		6
Percent Heavy Vehicles	4	4	4		0	0		40
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		<u></u>
RT Channelized			0			<u> </u>		0
Lanes	0	1	0		0			0
Configuration								
Delay, Queue Length, a	nd Level of Sei	rvice		161.64			<u> State and an </u>	C. C. H. C. C. C.
Approach	Eastbound	Westbound	1	Northbour	nd	S	outhbound	t
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L		LTR			LTR	
v (veh/h)	8	1		41			6	
C(m)(veh/h)	1010	1234		370			602	
	0.01	0.00		0.11			0.01	
05% quous longth	0.02	0.00		0.37			0.03	
So /o queue leligili	9.6	70		15.9			11.0	
Control Delay (s/ven)	0.0	7.3 A		<u> </u>			B	
LOS	A	A	<u></u>	15.0			11.0	J
Approach Delay (s/veh)				10.9				
Approach LOS				U U			D	

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General Information								
		Site Information		<u>Ellerin</u>				
Analyst DLD Agency or Company ATE		Highway From/To	SR 46E @ LINION RD-LANDEILL AC	CESS				
)ate Performed 6/26/20	006	Jurisdiction	CALTRANS	/0200				
Inalysis Time Period AM PE	AKHOUR	Analysis Year	EXISTING - 250 TPD MAX D)AY				
roject Description:				<u> </u>				
	<u> </u>	<u> 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>		<u>84893967</u>				
1			🔽 Class I highway 🔽 Class II highway					
Shou	Ider width tt	11 ~	Terrain 🔽 Level 🔽 Rolling					
🖞 Lane	widtht	$\left \right \left \right $	Two-way hourly volume 680 veh/h					
Lane	width It	┨│	Directional split 56 / 44 Peak-bour factor PHF 0.88					
1 Shou	lder widthtt	$1 \mid \backslash \mid /$	No-passing zone 90					
	•	Show North Arrow	% Trucks and Buses , P $_{ m T}$ 14 %					
Segment length, L _t	mi		% Recreational vehicles, P _P 4%					
			Access points/ mi 8					
verage Travel Speed								
rade adjustment factor, f _G (Exhibit 20-7)			1.00	<u>1294 X. 194</u>				
assenger-car equivalents for trucks, E _T (Exhibit	20-9)		1.2					
assenger-car equivalents for RVs, E _R (Exhibit 2	:0-9)		1.0					
eavy-vehicle adjustment factor, f _{HV} =1/ (1+ P _T (E	E _T -1)+P _R (E _R -1))		0.973					
vo-way flow rate ¹ , v _p (pc/h)=V/ (PHF * f _G * f _{HV})			794					
* highest directional split proportion ² (pc/h)			445					
Free-Flow Speed from Field N	Measurement		Estimated Free-Flow Speed					
		Base free-flow speed	, BFFS _{EM} 60.0 /	mi/h				
ad Measured speed, S _{FM}	mi/h	Adi, for lane width and	d shoulder width ³ f. (Exhibit 20-5) $0.0 m$	ni/h				
oserved volume, V _f	veh/h	Adi, for access points	$f_{\text{(Eyblich total)}}(x) = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{$	u/h				
e-flow speed, FFS_FS=S _{FM} +0.00776(V _f / f _{HV}) mi/h	Auj. for access points						
		Free-flow speed, FFS	$(FSS=BFFS-t_{LS}-t_{A}) \qquad 58.0 \ T$	<i>ni∕n</i>				
j. for no-passing zones, f _{np} (<i>mi/n</i>) (Exhibit 20-1	1)		2.9					
erage travel speed, ATS (mi/h) ATS=FFS-0.00	1776v _p -f _{np}		49.0					
rcent Time-Spent-Following								
ade Adjustment factor, f _G (Exhibit 20-8)			1.00	<u>.</u>				
ssenger-car equivalents for trucks, E _T (Exhibit 2	20-10)		1.1					
ssenger-car equivalents for RVs, E _R (Exhibit 20	0-10)		1.0					
avy-vehicle adjustment factor, f _{HV} =1/ (1+ P _T (E _T	_r -1)+P _R (E _R -1))		0.986					
p-way flow rate ¹ , v _p (pc/h)=V/ (PHF * f _G * f _{HV})			784					
' highest directional split proportion ² (pc/h)			439					
e percent time-spent-following, BPTSF(%)=100	0(1-e ^{-0.000879v} p)		49.8					
for directional distribution and no-passing zone	e, f _{d/hp} (%)(Exh. 20-12)		14.9					
cent time-spent-following, PTSF(%)=BPTSF+f	d/np		64.7	100.083046				
el of service and Other Performance Measu el of service. LOS (Exhibit 20-3 for Class I or 20	res 0-4 for Class II)		<u>с</u>	2. 6. 9. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.				
ume to capacity ratio, v/c=V _n / 3,200			0.25					
k 15-min veh-miles of travel, VMT ₁₅ (veh- mi)=	0.25L _t (V/PHF)		0					
k-hour vehicle-miles of travel, VMT _{en} (veh- <i>mi</i>)=	:V*L,		0					
k 15-min total travel time, TT ₄₅ (veh-h)= VMT ₄₅	/ATS		0.0					
10' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				<u> </u>				
85 : 그는 것은 사람이는 것을 것이 없는 것을 것 같아요. 것 같아요. ^^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	그는 말 이렇는 걸었다. 한 방법 관계적 것이다.	こうちょう ふうちょうちょう しょうしょう	あっていたい ひちょう しょうちょう しょくさいせん しょうしょう シント・シント せいしゅうせん せいかく	hall all all all all all all all all all				

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	TV	NO-WAY STO	P CONT	ROL SU	JMMARY				
General Information	on		Site	Inform	ation				
Analyst Agency/Co. Date Performed Analysis Time Period	DLD ATE ned 6/26/2006 ne Period AM PEAK			Intersection Jurisdiction Analysis Year			SR 46(E)/UNION RD CALTRANS EXISTING - 250 TPD MAX DAY		
Project Description F	ASO LANDFILL	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>							
East/West Street: SR	46(E)		North	n/South S	treet: UNIOI	N ROAD			
Intersection Orientation	: East-West		Stud	y Period (hrs): <i>1.00</i>				
Vehicle Volumes a	nd Adjustme	ents	NY WALL	CHARLE C.	alle ann aire	MAN CONTRACT			
Major Street	_	Eastbound			· · · · · · · · · · · · · · · · · · ·	Westbo	und		
Movement	1	2		3	4	5		6	
	L	T		२	L	T		R	
Volume (veh/h)	11	283	8	3	1	337		1	
Peak-Hour Factor, PHF	0.92	0.92	0.9	92	0.92	0.92		0.92	
Hourly Flow Rate, HFR (veh/h)	11	307	8	}	1	366		1	
Percent Heavy Vehicles	40				4			**	
Median Type				Undiv	ided	·	,		
RT Channelized				0				0	
Lanes	1	1	0)	1	1		0	
Configuration	L		TI	२	L			TR	
Upstream Signal		0				0			
Minor Street		Northbound	·			Southbo	und		
Movement	7	8	9)	10	11		12	
	L	Т	F	र	L	T		R	
Volume (veh/h)	33	1	5		0	0		8	
Peak-Hour Factor, PHF	0.92	0.92	0.9	2	0.92	0.92		0.92	
Hourly Flow Rate, HFR (veh/h)	35	1	5		0	0		8	
Percent Heavy Vehicles	4	4	4		0	0		40	
Percent Grade (%)		0		1		0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			0)				0	
Lanes	0	1	0	[0	1		0	
Configuration		LTR				LTR			
Delay, Queue Length, a	ind Level of Sei	rvice				13.838 N	E SOLATE		
Approach	Eastbound	Westbound		Northbou	und	l s	outhbound	1	
Movement	1	4	7	8	9	10	11	12	
ane Configuration	L	L		LTR		-	LTR		
/ (veh/h)		1		41			8		
C (m) (veh/h)	1010			365			602	1	
	0.01	0.00		0.11			0.01		
	0.07	0.00		0.11			0.01	<u> </u>	
	0.03	0.00		0.30			0.04		
Control Delay (s/veh)	8.6	7.9		16.1			- 11.1		
_OS	A	A		C			В		
Approach Delay (s/veh)			*** * ·····	16.1			11.1		
Approach LOS			С			В			

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General Information		CONTRACTOR	Site Information		
Analyst Agency or Company Date Performed Analysis Time Period	DLD ATE 6/26/2006 AM PEAK HOUR		Highway From/To Jurisdiction Analysis Year	SR 46E @ UNION RD-LAN CALTRANS EXISTING+PROJE	IDFILL ACCESS
Project Description:]		
Input Data		NG JHARSON			
Segmen	Shoulder width Lane width Lane width Shoulder width t length, L mi	<u> </u>	Show North Arrow	Image: Class I highway Image: Class I cl	II highway olling veh/h 44 8 %
Average Travel Speed		<u> ABB CER</u>			
Grade adjustment factor, f _G (Exh	nibit 20-7)			1.00	
Passenger-car equivalents for tru	ucks, E _T (Exhibit 20-9)	· · · · · · · · · · · · · · · · · · ·		1.2	
Passenger-car equivalents for R	Vs, E _R (Exhibit 20-9)			1.0	
Heavy-vehicle adjustment factor,	f _{HV} =1/(1+P _T (E _T -1)+P _R (E _R -1))			0.973	
Two-way flow rate ¹ , v _p (pc/h)=V/	(PHF * f _G * f _{HV})			810	<u>.</u>
v _p * highest directional split propo	ortion ² (pc/h)			454	
Free-Flow Sp	beed from Field Measurement			Estimated Free-Flow Speed	
Field Measured speed, S _{FM}		mi/h	Base free-flow speed Adj. for lane width an	d, BFFS _{FM} nd shoulder width ³ , f _{LS} (Exhibit 20-5)	60.0 mi/h 0.0 mi/h
Free-flow speed, FFS_FFS=S _{FM}	+0.00776(V _f / f _{HV})	mi/h	Adj. for access points	s, f _A (Exhibit 20-6)	2.0 mi/h
			Free-flow speed, FFS	S (FSS=BFFS-t _{LS} -t _A)	58.0 mi/n
Adj. for no-passing zones, f _{np} (m	<i>ni/h</i>) (Exhibit 20-11)			2.8	
Average travel speed, ATS (mi/h) ATS=FFS-0.00776v _p -f _{np}			48.9	
Grade Adjustment factor f (Exh	ihit 20-8)			1.00	
				11	
Passenger-car equivalents for the	/s F (Exhibit 20-10)			1.0	
leavy-vehicle adjustment factor	f., =1/(1+P_(E1)+P_(E1))			0.986	
wo-way flow rate ¹ , v (pc/b)=V/	$(PHE * f_{a} * f_{uu})$			799	
* highest directional split propo	rtion ² (pc/h)		<u></u>	447	
Base percent time-spent-following], BPTSF(%)=100(1-e ^{-0.000879} √p)		<u></u>	50.5	<u></u>
dj. for directional distribution and	I no-passing zone, f _{d/hp} (%)(Exh. 2	20-12)	<u> </u>	14.4	e
Percent time-spent-following, PTS	SF(%)=BPTSF+f			64.9	
evel of Service and Other Perf	ormance Measures				a and the second se
evel of service, LOS (Exhibit 20-	3 for Class I or 20-4 for Class II)			<u>ل</u> 0.25	
$\frac{1}{p} = \frac{1}{p} = \frac{1}$				0.20 	
	$V(V)_{15} (Verr (11)) = 0.20L_{t}(V/PHF)$		<u></u>	0	74-1409901-,
eak-nour venicie-miles of travel,					
eak 15-min total travel time, TT _{1!}	₅ (ven-n)= VMT ₁₅ /ATS			U.U	H Statistics
A123	and the second secon	ちくちょうそう ひりょう ひょうちょう	ちゅう つくりょう しゅうちょうりょう ないもちょうりょう	rether to the her section of the terminal section of the fight of	

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	TW	O-WAY STO			IMARY			
General Information	n		Site II	nformat	ion			
Analyst Agency/Co. Date Performed Analysis Time Period	DLD ATE 6/26/2000 AM PEAP	5 (Interse Jurisdi Analys	Intersection Jurisdiction Analysis Year		SR 46(E)/UNION RD CALTRANS EXISTING + PROJECT (45 TPD)		
Project Description PA	SO LANDFILL	· · · · · · · · · · · · · · · · · · ·						
East/West Street: SR 4	6(E)		North/S	South Stre	et: UNION	ROAD		
Intersection Orientation:	East-West		Study F	Period (hrs	s): 1.00			ann a ferral a car Stand Palaentairte
Vehicle Volumes ar	nd Adjustme	nts	n voltandade.	111155466				
Major Street		Eastbound				Westbou	ind	
Movement	1	2	3		4	<u>5</u>		<u>б</u> В
	L		<u> </u>		L	337		<u>г</u> 1
Volume (veh/h)	10	283	0 02		0.92	0.92		, 0.92
Hourly Flow Rate, HFR	17	307	8		1	366		1
Percent Heavy Vehicles	40				4			
Median Type				Undivide	əd			
RT Channelized		1	0					0
Lanes	1	1	0		1	1		0
Configuration	L		TR		L			TR
Upstream Signal		0				0		
Minor Street		Northbound				Southbou	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)	33	1	5		0	0		16
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	35	1	1 5		0	0		17
Percent Heavy Vehicles	4	4	4	4				40
Percent Grade (%)		0						
Flared Approach		N						
Storage		0				0		
RT Channelized			0					0
Lanes	0	1	0		0			0
Configuration			No. Concernent region of the Society					1. M.S. M.
Delay, Queue Length, a	nd Level of Sei	rvice		<u> 1997 - 1987 - 1</u>	<u> 1899 - 1897 - 1897 -</u>	<u></u>		<u>());;;;;;());;;;;</u> 1
Approach	Eastbound	Westbound		Northboun				1
Movement	1	4	7	8	9	10		12
Lane Configuration	L	L		LIR				
v (veh/h)	17	1		41			1/	
C (m) (veh/h)	1010	1234		349			602	
v/c	0.02	0.00	0.12			0.03		
95% queue length	0.05	0.00		0.40		0.09		
Control Delay (s/veh)	8.6	7.9		16.7			11.2	
LOS	A	A		C		В		
Approach Delay (s/veh)				16.7			11.2	
Approach LOS				С			В	

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AWD = 13.5 = Los B 24

Fax: Phone: E-mail: PLANNING ANALYSIS_____ Analyst: DLDAgency/Co: Date: ATE 6/27/2006 Analysis Period: AM PEAK Highway:SR 46(E)From/To:@ UNION RDJurisdiction:CALTRANS Analysis Year: YEAR 2022 BASELINE Project ID: INPUT DATA Total AADT volume, AADT 16900 vpd Proportion AADT during peak hour, K 0.05 Percent peak-hour traffic in heaviest direction, D 56 ÷ 응 14 Trucks Level Terrain type 60.0 mph Base free-flow speed, BFFS ANALYSIS_____ $DDHV = AADT \times D \times K$ $DDHV = 16900 \times 0.56 \times 0.05 = 473$ Volume for : LOS 4-lane highway = 473vph/2 lanes = 236vphpl A6-lane highway = 473vph/3 lanes = 157vphpl A LEVEL OF SERVICE_____ Free-Flow Speed = 60 mph Free-Flow Speed = 50 mph Percent Trucks Percent Trucks 10 15 20 0 5 10 15 20 LOS 0 5 Terrain A560550530520510B920900870850840 440 430 420 410 400 Level 710 700 680 660 650 1030 1000 980 960 940 1350 1320 1290 1260 1230 C 1310 1280 1250 1220 1190 1680 1640 1600 1570 1530 D 1610 1570 1530 1500 1460 E 1870 1820 1780 1740 1700 560 520 490 460 440 410 380 360 340 430 Rolling А 920 850 800 750 710 710 660 620 580 550 В 1030 960 900 840 790 1350 1260 1180 1100 1040 1610 1500 1400 1310 1240 C 1310 1220 1140 1070 1010 D 1680 1570 1470 1380 1300 1870 1740 1620 1520 1440 E 420 370 330 440 370 320 290 260 A 560 480 Mountain

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Ð	020	780	680	600	540	710	610	530	470	420
в	920	/00	000	000		1020	000	760	680	610
С	1310	1120	970	860	770	1030	000	700	000	0 - 0
- D	1 (9 0	1/20	1250	1100	990	1350	1150	1000	890	800
D	1980	1430	1200	1100			1 2 7 0	1100	1050	950
Ε	1870	1590	1380	1220	1100	1610	1370	1190	1050	550

Assumptions: highway with 60 mi/h FFS has 8 access points/mi; highway with 50 mi/h FFS has 25 access points/mi; lane width = 12 ft; shoulder width > 6 ft; divided highway; PHF = 0.88; all heavy vehicles are trucks and regular commuters

	ти	VO-WAY STO		OL SU	MMARY			
General Informatic	n		Site	nforma	ation	an a		
Analyst Agency/Co. Date Performed Analysis Time Period	DLD ATE 6/26/200 AM PEA	6 K	Intersection Jurisdiction Analysis Year			SR 46(E)/UNION RD CALTRANS YEAR 2022 BASELINE		
Project Description P	ASO LANDFILL						· · · · · · · · · · · · · · · · · · ·	
East/West Street: SR	46(E)		North/	South St	reet: UNION	ROAD		
Intersection Orientation:	East-West		Study	Period (h	nrs): 1.00			
Vehicle Volumes a	nd Adjustme	nts						
Major Street		Eastbound	<u></u>			Westbo	und	
Movement	1	2	3		4	5		6
	L	T	R		L	T		R
Volume (veh/h)	8	374	11		11	445		1
Peak-Hour Factor, PHF	0.92	0.92	0.92	?	0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	8	406	11		1	483		1
Percent Heavy Vehicles	40				4			
Median Type			Two	Nay Left	Turn Lane			
RT Channelized			0					0
Lanes	1	2	0		1	2		0
Configuration	L	Т	TR		L	T		TR
Upstream Signal		0				0	0	
Minor Street		Northbound				Southbo	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	Т		R
Volume (veh/h)	44	1	7		0	0		6
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	47	1	7		0	0		6
Percent Heavy Vehicles	4	4	4		0	0		40
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0		ľ		0		
RT Channelized			0					0
Lanes	0	1	0		0	1		0
Configuration		LTR				LTR		
Delay, Queue Length, a	nd Level of Ser	vice		SUN UN			ille genoù a	
Approach	Eastbound	Westbound		Northbou	ind	S	Southboun	d
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L		LTR			LTR	
v (veh/h)	8	1		55			6	
C (m) (veh/h)	849	1124		461			655	
v/c	0.01	0.00		0.12			0.01	
95% gueue length	0.03	0.00		0.41			0.03	
Control Delay (s/veh)	9.3	8.2		13.9			10.5	
LOS	A	A		В			В	
Approach Delay (s/veh)				13.9			10.5	
Approach LOS				В			В]

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HWD = 130 = LOS B 27

Phone: E-mail:		Fax:									
]	PLANNIN	IG ANALY	SIS				
Analyst	:	DI	D								
Agency/	Co:	ΓA	Έ								
Date:		6/	27/200	6							
Analysis	s Peri	od: AM	I PEAK								
Highway	:	SR	46(E)								
From/To	:	@	UNION	RD							
Jurisdic	ction:	CA	LTRANS								
Analysis Project	s Year ID:	: 20	22+FUT	URE MA	AX DAY	(450 TP)	D)				
					INPU	T DATA					
Total AA	ADT vo	lume,	AADT					17100		bqv	
Proporti	on AAI	DT dur	ing pe	ak hou	ir, K			0.05		▲ ⁻	
Percent	peak-l	hour t	raffic	in he	aviest	direct	ion, D	56		양	
Trucks								14		90	
Terrain	type							Level			
Base fre	e-flow	w spee	d, BFF	S				60.0		mph	
					AN	ALYSIS					
Volume f 4-lan 6-lan	or : e high e high	way = way =	479 479		vph/2] vph/3]	lanes = lanes =	239 159	vphp vphp	LOS ol A ol A		
					_LEVEL	OF SERV	ICE				
		Free-H	flow Sp	peed =	60 mpł	l	Fre	ee-Flow	Speed	d = 50	mph
			Per	cent 1	Frucks			Per	cent 1	rucks	
	LOS	0	5	10	15	20	0	5	10	15	20
ſerrain											
Level	A	560	550	530	520	510	440	430	420	410	400
	В	920	900	870	850	840	710	700	680	660	650
	C	1310	1280	1250	1220	1190	1030	1000	980	960	940
	D	1680	1640	1600	1570	1530	1350	1320	1290	1260	1230
	E	18.40	1820	1780	1740	1700	1610	1570	1530	1500	1460
Rolling	А	560	520	490	460	430	440	410	380	360	340
-	в	920	850	800	750	710	710	660	620	580	550
	С	1310	1220	1140	1070	1010	1030	960	900	840	790
	D	1680	1570	1470	1380	1300	1350	1260	1180	1100	1040
	Е	1870	1740	1620	1520	1440	1610	1500	1400	1310	1240
ountain	А	560	480	420	370	330	440	370	320	290	260

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в	920	780	680	600	540	710	610	530	470	420
Ĉ	1310	1120	970	860	770	1030	880	760	680	610
n	1680	1430	1250	1100	990	1350	1150	1000	890	800
Ē	1870	1590	1380	1220	1100	1610	1370	1190	1050	950

Assumptions: highway with 60 mi/h FFS has 8 access points/mi; highway with 50 mi/h FFS has 25 access points/mi; lane width = 12 ft; shoulder width > 6 ft; divided highway; PHF = 0.88; all heavy vehicles are trucks and regular commuters

	тw	O-WAY STOP	P CONTRO	OL SU	MMARY					
General Informatio	n	a an	Site Ir	nforma	tion					
Analyst	DLD		Interse	Intersection			SR 46(E)/UNION RD			
Agency/Co.	ATE		Jurisdi	ction		CALIRA				
Date Performed	6/26/2006	;	Analys	is Year)22 + MAX	DAY (45		
Analysis Time Period	AM PEAK					TFD)				
Project Description Pr	ASO LANDFILL									
East/West Street: SR 4	16(E)		North/S	South St	reet: UNIOI	N ROAD				
Intersection Orientation:	East-West		Study F	Period (h	nrs): 1.00	and the second				
Vehicle Volumes a	nd Adjustmer	nts		<u></u>		Maatha	und .	ALC: MA		
Major Street		Eastbound	2		1			6		
Movement	I	<u>Z</u>				$-\frac{3}{T}$		R		
Valuma (vah/h)	L	374	11		<u>_</u>	445		1		
Volume (ven/m)	0.92	0.92	0.92		0.92	0.92		0.92		
Hourly Flow Rate HFR	0.92	0.02	0.02			400		4		
(veh/h)	17	406	11		1	483				
Percent Heavy Vehicles	60			1/21.1.2.4	4					
Median Type			I WO V	vay Leπ	Turn Lane					
RT Channelized			0					0		
Lanes	1	2	0		1	2				
Configuration	L	T			L			IR		
Upstream Signal		0								
Minor Street		Northbound				Southbo		10		
Movement	7	8	9		10		<u> </u>			
	L							<u> </u>		
Volume (veh/h)	44	1	/		0 02	0.92		10		
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.52		
(veh/h)	47	1	1 7 0		0		17			
Percent Heavy Vehicles	4	4	4		0	0		60		
Percent Grade (%)		0				0				
Flared Approach		N				N				
Storage		0				0				
RT Channelized			0					0		
Lanes	0	1	0		0	1		0		
Configuration		LTR				LTR				
Delay, Queue Length, a	nd Level of Ser	vice	6. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18			CARGE (S.)	온고, 옷한 옷			
Approach	Eastbound	Westbound	N	Northbound			Southbound	bound		
Movement	1	4	7	8	9	10	11	12		
Lane Configuration	L	L		LTR			LTR			
v (veh/h)	17	1		55			17			
C (m) (veh/h)	757	1124		442			609			
v/c	0.02	0.00		0.12			0.03			
95% queue length	0.07	0.00		0.43			0.09			
Control Delay (s/veh)	9.9	8.2		14.3			11.1			
LOS	A	А		В			В			
Approach Delay (s/veh)			J.	14.3			11.1			
Approach LOS				В			В			

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Richard L. Pool, P.E. Scott A. Schell, AICP

August 17, 2006

Joseph J. Miller SCS Engineers 6601 Knoll Center Parkway, Suite 140 Pleasanton, CA 94566

SUPPLEMENTAL TRAFFIC ANALYSIS FOR THE PASO ROBLES LANDFILL PROJECT, SAN LUIS OBISPO COUNTY, CALIFORNIA

The Paso Robles Landfill Project traffic study assessed potential impacts of the project on SR 46(E) adjacent to the site for two conditions:

- 1) Existing + Proposed Maximum Day. The segment of SR 46(E) is forecast to operate at LOS C during the A.M. peak hour period with Existing + Future Maximum Day traffic. This analysis assumed the existing two-lane section of SR 46(E) adjacent to the site.
- 2) Year 2022 + Proposed Maximum Day. The operational analyses found that the segment of SR 46(E) adjacent to Union Road is forecast to operate at LOS A during the A.M. peak hour period for this scenario. The Year 2022 + Proposed Maximum Day analysis assumed completion of the Caltrans project to widen SR 46(E) to a four-lane conventional highway adjacent to the site. Caltrans staff indicated that the widening is scheduled for construction in Year 2010.

ATE assessed operations for the Year 2022 + Proposed Maximum Day scenario assuming that SR 46(E) is not widened to a four-lane conventional highway (level of service worksheet assuming two-lane highway is attached). The results show that SR 46(E) would operate at LOS D during the A.M. peak hour period with or without project traffic. The project would not significant degrade operations under this scenario.

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Joseph J. Miller

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This concludes our supplemental analysis for the Paso Robles Landfill Project.

Associated Transportation Engineers

Dan L. Dawson Supervising Transportation Planner

DLD

Attachment: Two-Lane Highway Segment Worksheet

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TWO-WAY TWO-LANE HIGHWAY SEGMENT WORKSHEET								
General Information	Site information							
Analyst DLD	Highway SR 46E							
Agency or Company ATE	Jurisdiction CALTRANS							
Analysis Time Period AM PEAK	Analysis Year 2022+MAX DAY							
Project Description: Input Data								
	Class I highway							
│								
Shoulder width th	Two-way hourly volume 906 veh/h							
	Directional split 56 / 44							
Lane width th	No-passing zone 90							
	Show North Arrow % Trucks and Buses , P _T 14 %							
Segment length, L _t mi	% Recreational vehicles, P _R 4%							
	Access points/ mi 8							
Average Travel Speed								
Grade adjustment factor, f _G (Exhibit 20-7)	1.00							
Passenger-car equivalents for trucks, E _T (Exhibit 20-9)	1.2							
Passenger-car equivaients for RVs, E _R (Exhibit 20-9)	1.0							
Heavy-vehicle adjustment factor, f _{HV} =1/ (1+ P _T (E _T -1)+P _R (E _R -1))	0.973							
Two-way flow rate ¹ , v _p (pc/h)=V/ (PHF * f _G * f _{HV})	1058							
v _p * highest directional split proportion ² (pc/h)	592							
Free-Flow Speed from Field Measurement	Estimated Free-Flow Speed							
Field Measured speed S mi/h	Base free-flow speed, BFFS _{FM} 60.0 mi/h							
Charge and the second s	Adj. for lane width and shoulder width ³ , f _{LS} (Exhibit 20-5) 0.0 mi/h							
	Adj. for access points, f _A (Exhibit 20-6) 2.0 mi/h							
Free-flow speed, FFS FFS=S _{FM} +0.00776(V / t _{HV}) m//	Free-flow speed, FFS (FSS=BFFS-f _{LS} -f _A) 58.0 mi/h							
Adj. for no-passing zones, f _{np} (<i>mi/h</i>) (Exhibit 20-11)	2.3							
Average travel speed, ATS (<i>mi/h</i>) ATS=FFS-0.00776v _p -f _{np}	47.5							
Percent Time-Spent-Following								
Grade Adjustment factor, f _G (Exhibit 20-8)	1.00							
Passenger-car equivalents for trucks, E _T (Exhibit 20-10)	1.1							
Passenger-car equivalents for RVs, E _R (Exhibit 20-10)	1.0							
Heavy-vehicle adjustment factor, f _{HV} =1/ (1+ P _T (E _T -1)+P _R (E _R -1))	0.986							
Two-way flow rate ¹ , v _p (pc/h)=V/ (PHF * f _G * f _{HV})	1044							
v _p * highest directional split proportion ² (pc/h)	585							
Base percent time-spent-following, BPTSF(%)=100(1-e ^{-0.000879v} p)	60.7							
Adj. for directional distribution and no-passing zone, f _{d/hp} (%)(Exh. 20-12)	71.8							
Percent time-spent-following, PTSF(%)=BPTSF+f d/np	1							
Level of Service and Other Performance Measures Level of service, LOS (Exhibit 20-3 for Class I or 20-4 for Class II)								
Volume to capacity ratio, v/c=V _p / 3,200	0.33							
Peak 15-min veh-miles of travel, VMT ₁₅ (veh- <i>mi</i>)= 0.25L _t (V/PHF)	0							
Peak-hour vehicle-miles of travel, VMT ₆₀ (veh- <i>mi</i>)=V*L _t	0							
Peak 15-min total travel time, TT ₁₅ (veh-h)= VMT ₁₅ /ATS	0.0							
Notes								
 If Vp >= 3,200 pc/h, terminate analysis-the LOS is F. If highest directional split Vp>= 1,700 pc/h, terminated anlysis-the LOS is F 								
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APPENDIX B

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SCS ENGINEERS

MEMORANDUM

September 1, 2006 File No. 01205150.00 / Task 10

Re:	Preliminary Evaluation of Air Quality Impacts Proposed Solid Waste Facility Permit Revision City of Paso Robles Landfill
Сору:	Jim Wyse, Pacific Waste Services Ed Gallagher, City of Paso Robles Community Development Department
From:	Pat Sullivan, Air Quality Compliance Group, SCS Engineers Joseph Miller, P.E., SCS Engineers
То:	Brad Hagemann, P.E., City of Paso Robles Public Works Department

SCS Engineers (SCS) performed a preliminary evaluation of potential air quality impacts associated with the proposed Solid Waste Facility Permit (SWFP) revision for the Paso Robles City Landfill. Our evaluation was in support of an Initial Study for the permit revision, which is subject to California Environmental Quality Act (CEQA) review. This memo presents the results of our findings.

SETTING

The SWFP for operation of the Paso Robles City Landfill was issued by the California Integrated Waste Management Board (CIWMB) on April 30, 1999. The facility is classified as a Class III sanitary landfill, permitted for disposal of non-hazardous municipal solid wastes (MSW). Landfill waste disposal rates over the past 3 years have ranged up to 50,000 tons per year (tpy). The current permit allows for disposal of 69,000 tons MSW per year with a daily maximum of 250 tons per day (tpd).

A permit revision is proposed to increase the disposal limits to 75,000 tpy and 450 tpd, respectively. This change is proposed to accommodate long-term waste disposal needs associated with economic and population growth in the greater Paso Robles area. CIWMB approval for the requested permit revisions and issuance of a new SWFP are subject to CEQA review.

No changes are proposed to types of wastes accepted for landfill disposal, or to the permitted landfill footprint areas, final grades, or ultimate airspace capacity as part of the permit modification.

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CRITERIA FOR DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS

The San Luis Obispo County Air Pollution Control District (APCD, or District) has published guidelines for assessing the air quality impacts for projects subject to CEQA review (San Luis Obispo County, April 2003). This CEQA guidance document gives threshold limits for pollutant emissions to determine if a project's air quality impacts are significant or insignificant, which type of environmental document is needed to satisfy CEQA requirements and whether the project is subject to District review.

For the proposed landfill permit revision, SCS prepared emissions estimates for comparison with the District's published thresholds of significance. Results are provided herein. A qualitative discussion of the potential cumulative air impacts and the project's consistency with existing air permit conditions is also presented.

EMISSIONS ESTIMATES

Our evaluation considered vehicle exhaust and particulate matter (PM-10) emissions from onroad waste delivery vehicles, PM-10 emissions from use of on-site, unpaved haul roads, and exhaust emissions from landfill equipment. Estimates were prepared using published emissions factors and the following assumptions representing reasonably foreseeable conditions:

- A 6,000 tpy incremental increase in the permitted MSW disposal rate (from 69,000 to 75,000 tpy). The landfill is operated 6 days per week (312 days/year). The permit revision would result in an average, incremental increase of 19 tons per day delivered to the site. This is considered worst-case and would represent a 12 percent increase over the current disposal rate. Actual disposal rates are expected to increase between 3 and 4 percent per year in the near term, commensurate with population and economic growth.
- Waste deliveries will be via a combination of self-haul vehicles (from the general public), commercial compactor and roll-off trucks, other commercial vehicles (general contractors, landscapers), and long-haul transfer trailer vehicles. The forecasted incremental increases in daily vehicle trips and tons delivered by vehicle type are shown in Table 1. The distribution by vehicle type is forecasted based on existing landfill customer use and anticipated changes in hauling practices. An average of 7 additional vehicle trips per day is anticipated.
- On-road travel distances to the landfill are estimated to average: 16 miles round-trip for self-haul and commercial vehicles presently served by the landfill; and 50 miles round-trip for long-haul transfer vehicles originating from out-of-county locations.
- The permit revision will not result in any additional employee vehicle trips.

Details on waste disposal forecasts, anticipated landfill traffic and circulation and site operations are provided in the accompanying CEQA Project Description / Initial Study document.

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Our analysis is based on average increase in daily waste deliveries and tonnage, as opposed to daily peaks. This is appropriate because the proposed peak tonnage limit (approaching 450 tpd) is expected only infrequently, if ever (natural disasters, special events). As an example, the peak disposal rate equaled or exceeded 250 tpd on only two occasions during the period March through June, 2006. Therefore our emissions estimates are based on expected changes in typical daily operations.

TABLE 1. FORECASTED LANDFILL WASTE DELIVERIES PASO ROBLES CITY LANDFILL, REVISED SOLID WASTE PERMIT (Incomental words in process (000 tang/word))

Vehicle Type	Tons per year	Tons per Day*	Average Payload, tons [#]	Average Additional Deliveries /day
Self-haul (general public)	571	1.8	0.55	3.4
Commercial compactor and roll-off trucks	4,448	14.4	5.57	2.6
Self-haul commercial	593	1.9	1.81	1.1
Long-haul transfer/trailer	395	1.3	20.0	0.1
Total (rounded)	6,000	19.4		7

(Incremental waste increase 6,000 tons/year)

* 6 /days week basis, 312 days/year

[#] Average payload based on current weight distribution of landfill traffic

Waste Delivery Vehicle Exhaust Emissions

SCS calculated waste delivery vehicle exhaust emissions using the District's recommended program, URBEMIS. The program uses inputs of trips/day, fuel types used, weight of vehicles, and percentage of vehicle use to estimate total daily emissions of reactive organics (ROGs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur dioxide (SO_2) and PM-10. Because the landfill is accessible from Highway 46, vehicle emissions were estimated at highway speeds.

Attachment 1 provides inputs to the URBEMIS program, and model results. Shown below in Table 2 are the results.

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TABLE 2. ESTIMATED WASTE DELIVERY EXHAUST EMISSIONS PASO ROBLES CITY LANDFILL, REVISED SOLID WASTE PERMIT

(Incremental waste increase 6,000 tons/year)

Pollutant	Total Emissions (lb/day)
ROG	0.02
NOx	0.01
SO ₂ *	0.00
СО	0.07
PM-10*	0.00

* The Urbemis program calculates emissions to the hundredth place. SO2 and PM-10 may have emission of 0.004 lb/day (worst case) or less due to program limits.

Roadway PM-10 Emissions

SCS estimated the roadway-use generated PM-10 emissions using AP-42 guidelines and equations. This model calculates PM-10 emissions on paved and unpaved roads based on distance traveled, vehicle weights, and meteorological conditions. The paved road emissions are based on a one-way trip of eight miles loaded and a one-way trip of eight miles unloaded. Eight miles is the distance from the center of Paso Robles to the weigh station at the landfill. Emissions for long-haul vehicles are calculated using a one-way trip of 25 miles loaded and a one-way trip of 25 miles unloaded. Unpaved emissions are based on a one-way trip distance of approximately 1,000 feet from the weigh station to the working face loaded and the same distance back to the weigh station unloaded. Vehicle weights are from industry GVW ranges, with typical refuse payloads added or subtracted as appropriate.

The PM-10 calculations and results are presented in Attachment 2. Shown below in Table 3 are the results of the PM-10 emissions analysis:

TABLE 3. ESTIMATED PM-10 ROADWAY EMISSIONSPASO ROBLES CITY LANDFILL, REVISED SOLID WASTE PERMIT
(Incremental waste increase 6,000 tons/year)

Roadway Segment	PM-10 Emissions (lb/day)
Paved roads	6.02
Unpaved (on-site scalehouse to working face)	3.01
Total	9.03

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Landfill On-Site Equipment

Based on our experience, the existing equipment is sufficient for operating a landfill with waste deliveries up to 800 tpd (one each – loader, dozer, compactor, scraper, water truck). The small incremental increase of 19 tpd associated with the permit revision will not materially affect day-to-day operations and no modification of equipment types or measurable change in equipment use during currently permitted operating hours is expected.

The proposed permit revision would allow the facility to begin receiving waste at 7:00 a.m., as opposed to 8 a.m. currently. Estimates of exhaust emissions from landfill equipment were prepared for this additional incremental hour of operation. Based on our experience, early morning operations would entail use of the dozer and loader only (for tarp removal, cell preparation and waste compaction).

Estimates of incremental exhaust emissions for this 1-hour period were prepared based on emissions factors for off –road equipment (*Exhaust and Crankcae Emission Factors for Nonroad Engine Modeling – Compression Ignition, NR-009c,* U.S. EPA, 2004). These estimates are provided in Table 4. Supporting calculations are provided in Attachment 3.

	Incremental Daily Emissions (lb/day)						
Pollutant	Komatsu D66L Dozer	CAT 953 Loader	Total				
ROG	0.102	0.325	0.427				
NOx	1.533	2.806	4.339				
СО	0.393	0.912	1.305				
PM-10	0.120	0.278	0.398				

<u>Summary</u>

Table 5 summarizes estimated incremental daily air emissions associated with the landfill permit revision. Also shown for reference are District thresholds of significance for project emissions impacts. Estimated incremental project emissions are all below District thresholds of significance.

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TABLE 5. ESTIMATED PROJECT EMISSIONS PASO ROBLES CITY LANDFILL, REVISED SOLID WASTE PERMIT

Pollutant	Total Estimated Emissions (lb/day)	San Luis Obispo County APCD Threshold of Significance (lb/day)*
ROG	0.45	< 10
NOx	131	<10
SO ₂	0.00	<10
СО	4.41	<550
PM-10	9.43	<10

(Incremental waste increase 6,000 tons/year, 19.4 tons/day)

* San Luis Obispo County, April 2003

CUMULATIVE IMPACTS

Cumulative air quality impacts under CEQA are typically evaluated by assessing the project for consistency with the General Plan for the local planning area and the local air district's Clean Air Plan (CAP) or equivalent. Landfills are also evaluated against the County Integrated Waste Management Plan (CoIWMP). This is consistent with the District's CEQA guidance document (2003), which requires the following for a CAP consistency review.

- 1. Are the population projections used in the plan or project equal to or less than those used in the most recent CAP for the same area?
- 2. Is the rate of increase in vehicle trips and miles traveled less than or equal to the rate of population growth for the same area?
- 3. Have all applicable land use and transportation control measures and strategies from the CAP been included in the plan or project to the maximum extent feasible?

The answer to each of the above is "yes" and the proposed project is considered by SCS to be consistent with the District's CAP. In addition, because the landfill permit revision is proposed to accommodate population/economic growth, then the project is also consistent with the General Plan and CoIWMP. Based on this overall conformity review, the proposed permit revision is not expected to generate significant cumulative air quality impacts.

In many cases, cumulative impacts are also evaluated as to their potential to cause or further degrade area-wide compliance with ambient air quality standards. State and federal ambient air quality standards have been established to protect public health and welfare from the adverse impacts of air pollution. A project is considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of ambient air quality standards.

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The San Luis Obispo area is in attainment for all state and federal ambient air standards, with the exception of the state PM-10 standard. Historically, the project vicinity has been non-attainment for the state ozone standard; however, the area is currently in attainment. The project-related emissions presented above are negligible and not expected to cause or contribute to a violation of any of these standards.

PERMIT CONSIDERATIONS RELEVANT TO CEQA

Some stationary and mobile are sources are normally subject to District regulation and control. Certain area sources of fugitive dust (e.g., soil or sand storage piles) and combustion emissions from mobile equipment at a facility (e.g., loaders, haul trucks, compressors, etc.) are not generally subject to direct permitting and control by the District. For these sources, the District requires an impact analysis and mitigation, as necessary, through the CEQA review process.

However, for sources that are regulated under District permitting requirements, a CEQA review may not be necessary. This is relevant in this instance because the Paso Robles Landfill is regulated under a Title V Permit administered by the District. The Title V permit contains specific requirements for among other things, fugitive dust control. As such, it could be argued that a CEQA analysis would not be required for the proposed landfill permit revision since it has already been through a thorough review as part of the District's Title V permitting process.

CONCLUSIONS

As shown in Table 5, estimated daily pollutant emissions associated with the proposed permit revision are less than District threshold limits. Per the District's CEQA guidelines, emissions of less than 10 lb/day of ROG, NO_x, SO₂, PM-10, and less than 550 lb/day of CO are considered insignificant. No cumulative air quality impacts are anticipated. Thus there are no significant air quality impacts anticipated for the project and mitigation measures are not required. Under these criteria, a Negative Declaration should be prepared to comply with CEQA.

Note that the District CEQA guidelines state that any proposed project with estimated emissions exceeding the limits shown in Table 5 should be submitted to that agency for review.

ATTACHMENT 1

Page: 2 08/03/2006 3:31 PM

URBEMIS 2002 For Windows 8.7.0

Tile Name:	C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Paso Robles	Landfill.urb
Project Name:	Paso Robles Landfill - Air Quality	
Project Location:	San Luis Obispo County	
On-Road Motor Vehicle Emissions	Based on EMFAC2002 version 2.2	

DETAIL REPORT (Pounds/Day - Summer)

UNMITIGATED OPERATIONAL EMISSIONS

		ROG	NOx	co	SO2	PMLO
Landfill		0.02	0.01	0.07	0.00	0.00
TOTAL EMISSIONS	(lbs/day)	0.02	0.01	0.07	0.00	0.00

Does not include correction for passby trips. Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2006 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Landfill		7.00 trips/day	1.00	7.00
		Sum of Total Total Vehicle Miles Tra	Trips veled	7.00

Vehicle Assumptions:

Fleet Mix:

Nahirle Type	Percent Type	Non-Catalyst	Cacalyst	Diesel
Linh Burn	0.00	. 0.00	0.00	0.00
Light Truck - 3,750 lbs	47.58	D_00	100.00	0.00
Timbe Truck 3,751- 5,750	0.00	0.00	0.00	0.00
Mad Truck 5,751- 8,500	36.51	0.00	50.00	50.00
tita-Washr 8 501-10,000	0.00	0.00	0.00	0.00
Liba-Warvy 10.001-14.000	0.00	0.00	0.00	0.00
Med Heavy 14 001-33,000	0.00	0.00	0,00	0.00
Hanny Hanny 33 001-60.000	15.06	0.00	0.00	100.00
tine Want > 60 000 1bs	0.85	0.00	0.00	100.00
Line neur > outous	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00
Woffitchere	0.00	0.00	0.00	0.00
Motor Home	0.00	0.00	0.00	0.00

Travel Conditions	Residencial			Commercial		
Urban Trip Langth (miles) Rural Trip Langth (miles)	Home- Work 0.0 0.0 50.0	Home- Shop 50.0 0.0 50.0	Home- Other 16.0 0.0 50.0	Commute 0.0 0.0 50.0	Non-Work 0.0 0.0 50.0	Customer 0.0 0.0 50.0
t of Trips - Residential	0.0	0.9	99,2			

% of Trips - Commercial (by land use) Landfill 2.0 1.0

97.0

ATTACHMENT 2 ESTIMATED PM-10 EMISSIONS - PAVED ROADS PASO ROBLES LANDFILL, PASO ROBLES, CALIFORNIA

PM-10 Variables, Emission Factors, and		Solf Houl Commorgial		Long-Haul	
Emission	Sell-Haul	Commercial	Commercial	Tractor/Trailer	
Distance Traveled Loaded (miles)	8.0	8.0	8.0	25.0	
Distance Traveled Unloaded (miles)	8.0	8.0	8.0	25.0	
Weight (loaded, tons)	1.5	18.5	4.0	40.0	
Weight (unloaded, tons)	1.0	13.0	2.2	20.0	
Load/day (v)	3.35	2.57	1.06	0.06	
k	0.016	0.016	0.016	0.016	
Р	90	90	90	90	
N	312	312	312	312	
sL	0.35	0.35	0.35	0.35	
С	0.00047	0.00047	0.00047	0.00047	
VMT/day	53.6	41.2	16.9	3.2	
Emission Factor loaded (lb/VMT)	0.001	0.07	0.01	0.23	
Emission Factor Unloaded (lb/VMT)	0.0005	0.04	0.003	0.08	
PM-10 Emissions Unloaded (Ib/day)	0.03	1.76	0.04	0.26	
PM-10 Emissions Loaded (lb/day)	0.07	3.00	0.12	0.74	
Subtotal PM-10 Emissions (lb/day)	0.09	4.76	0.16	1.01	
Total PM-10 Emissions (lb/day)	6.02				

Equations:

Emission Factor = [k(sL/2)^0.65 * (W/3)^1.5 - C] * [1-(P/4*N)] Emission (lb/day) = VMT/day * Emission Factor (lb/VMT)

Where:

k = Constant (Ib/VMT)¹

sL - Silt Load (g/m²)¹

W = weight of vehicle $(tons)^2$

C = Emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear³

P = Number of days with rain fall greater than 0.01 inchs⁴

N = Number of operating days⁵

¹ k value from AP-42 Table 13.2-1.1

² Weights determined from manufacturers specifications and typical refuse payloads received at landfill.

³ C value from AP-42 Table 13.2.1-2

⁴ P value from the National Weather Service

⁵ Number of operating days at PRI

ATTACHMENT 2 (Cont.) ESTIMATED PM-10 EMISSIONS - UNPAVED ROADS PASO ROBLES LANDFILL, PASO ROBLES, CALIFORNIA

PM-10 Variables, Emission Factors, and Emission	Self-Haul	Self-Haul Commercial		Long-Haul Tractor/Trailer
Distance Traveled Loaded (miles)	0.20	0.20	0.20	0.20
Distance Traveled Unloaded (miles)	0.20	0.20	0.20	0.20
Weight (loaded, tons)	1.5	18.5	4.0	40.0
Weight (unloaded, tons)	1.0	13.0	2.2	20.0
Load/day (v)	3.35	2.57	1.06	0.06
k	1.50	1.50	1.50	1.50
а	0.90	0.90	0.90	0.90
b	0.45	0.45	0.45	0.45
S	6.40	6.40	6.40	6.40
VMT/day	0.67	0.51	0.21	0.01
Emission Factor loaded (lb/VMT)	0.62	1.93	0.97	2.73
Emission Factor Unloaded (lb/VMT)	0.52	1.65	0.74	2.00
PM-10 Emissions Unloaded (Ib/day)	0.35	0.84	0.16	0.02
PM-10 Emissions Loaded (lb/day)	0.42	0.99	0.20	0.03
Subtotal PM-10 Emissions (lb/day)	0.77	1.83	0.36	0.06
Total PM-10 Emissions (lb/day)	3.01			

Equations:

Emission Factor = k(s/12)^a * (W/3)^b Emission (Ib/day) = VMT/day * Emission Factor (Ib/VMT)

Where:

k = Constant (Ib/VMT)¹

s - Silt Content (g/m²)¹

W = weight of vehicle $(tons)^2$

a = Emperical Constant¹

b = Emperical Constant¹

¹ k value from AP-42 Table 13.2-2.2

² Weights determined from manufacturers specifications and typical refuse payloads received at landfill.

ATTACHMENT 3 EMISSION CALCULATIONS FOR INCREMENTAL EQUIPMENT USE PASO ROBLES LANDFILL

	Power	HC				
	BHP	EF _{ss} (g/hp-hr)	TAF	DF	EF _{adj} (g/hp-hr)	E (lbs/hr)
Komatsu Dozer	128	0.3384	1.05	1.018	0.36	0.102
CAT Loader	205	0.3085	2.29	1.018	0.72	0.325
		CO				
Komatsu Dozer	128	0.8667	1.53	1.0505	1.39	0.393
		0 7 4 7 5		4.0505		
CAT Loader	205	0.7475	2.57	1.0505	2.02	0.912
				Nov		
		NUX				
Komotou Dozor	100	5 6522	0.05	1 012	5 42	1 522
Komatsu Dozer	120	5.0525	0.95	1.012	5.45	1.555
CAT Loader	205	5 5772	1 1	1 012	6.21	2 806
	200	0.0112		1.012	0.21	2.000
		 PM				
Komatsu Dozer	128	0.2799	1.23	1.2365	0.43	0.120
CAT Loader	205	0.2521	1.97	1.2365	0.61	0.278

Note: Assuming %50 of useful lifetime expended, Tier 1 type equipment, Based on BHP of like equipment

Reference: Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling--Compression-Ignition, NR-009c, EPA, 2004

Equations: $EF_{adj} = EF_{ss} \times TAF \times DF$ E = $EF_{adj}^*BHP/453.59$ Of particular importance is the daily intake and traffic levels for the month of May, 2006, the period when the existing traffic counts were collected adjacent to the landfill access. The tonnage received at the landfill was about 180 TPD and there were about 166 average daily trips. The data was extrapolated to develop traffic forecasts assuming a maximum day tonnage of 250 TPD allowed under the existing permit. Figure 2 shows the traffic levels on SR 46(E) and at the SR 46(E)/Union Road intersection for the Existing + Permitted Maximum Day (250 TPD) scenario.

Traffic operations for the segment of SR 46(E) adjacent to Union Road and for the SR 46(E)/Union Road intersection were evaluated assuming the 250 TPD maximum day traffic levels. The results show that the segment of SR 46(E) operates at LOS C and the SR 46(E)/Union Road intersection operates at LOS B during the A.M. peak hour on days when the landfill takes in the maximum of 250 TPD.

LANDFILL TRIP GENERATION

Trip generation estimates for the landfill are shown in Table 3. Trip generation for the landfill was developed based on traffic count and tonnage intake provided by the landfill operator (data contained in Technical Appendix). The Future Maximum Day (450 TPD) scenario assumes that self-haul vehicles (standard sized vehicles such as pick-up trucks) will become a smaller percentage than exists today. The future year scenario also assumes that two long-haul tractor-trailers per day will use the landfill.

Scenario	Load Per Day	ADT ^a	A.M. PHT ^b
<u>Permitted Average Day (180 TPD)</u> Cash Customers (Self Haul) Commercial Compactor & Roll-Off Self-Haul Commercial Total	49 25 <u>9</u> 83	166	17
Permitted Maximum Day (250 TPD) Cash Customers (Self Haul) Commercial Compactor & Roll-Off Self-Haul Commercial Total	68 34 <u>12</u> 115	230	23
<u>Future Maximum Day (450 TPD)</u> Cash Customers (Self Haul) Commercial Compactor & Roll-Off Self-Haul Commercial Long-Haul Tractor Trailer Total	78 60 24 <u>2</u> 165	330	33

Table 3 Paso Robles Landfill Trip Generation

^a Average Daily Trips = 1 trip inbound + 1 trip outbound for each load.

^b A.M. Peak Hour Trips = approximately 10% of ADT based on traffic count data.

Associated Transportation Engineers

June 29, 2006

PROOF OF PUBLICATION

LEGAL NEWSPAPER NOTICES

PLANNING COMMISSION/CITY COUNCIL PROJECT NOTICING

Newspaper:	Tribune
Date of Publication:	September 15, 2006
Meeting Date:	October 17, 2006 (City Council)
Project:	Solid Waste Facility Permit Revision, City of Paso Robles

Landfill

I, <u>Lonnie Dolan</u>, employee of the Community Development Department, Planning Division, of the City of El Paso de Robles, do hereby certify that this notice is a true copy of a published legal newspaper notice for the above named project.

Signed: Lonnie Dolan

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