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**Title**

CalRecycle memo - technical adequacy - preliminary closure and postclosure maintenance plans

**Document Date**

6/19/2017

**File Name**

guadalupe prelim tec  
ad.pdf


**Page Count**

2

**File Size (KB)**

1162

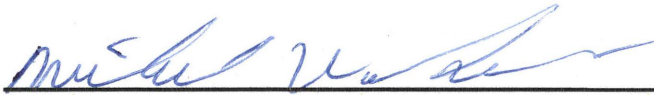
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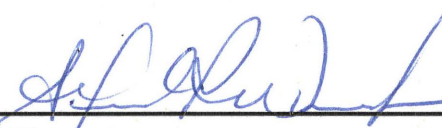
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**MEMORANDUM**

Date: June 19, 2017

To: Eric Kiruja  
Permits and Assistance Central Unit  
Permits and Assistance North Central Section  
Permitting and Assistance Branch

Through:   
Michael Wochnick, P.E., Manager  
Closure and Facility Engineering Unit

From:   
Alfred Worcester  
Closure and Facility Engineering Unit  
Engineering Support Branch  
**DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY**

Subject: **GUADALUPE LANDFILL, CITY OF SAN JOSE, (43-AN-0015)  
PRELIMINARY CLOSURE & POSTCLOSURE MAINTENANCE PLAN  
TECHNICAL ADEQUACY**

Engineering Support Branch (ESB) Closure and Facility Engineering Unit (Closure) staff have reviewed the following document for the Guadalupe Landfill:

- *Preliminary Closure and Postclosure Maintenance Plan (Plans) for the Guadalupe Recycling and Disposal Facility, San Jose, California, October 2013, by USA Waste of California, Inc.*

ESB staff finds that the submitted Plan(s), including the cost estimate(s) listed below, are technically adequate in meeting the requirements of Title 27, California Code of Regulations (27 CCR).

Pertinent Facility Characteristics

- Financial Assurance Cost Estimates. Final cost estimates are: Closure - \$11,843,175; Postclosure Maintenance - \$175,158 (annual average), and Corrective Action - \$ 336,411.
- Closure Date and Maximum Extent: based on current estimates of remaining airspace and disposal rates, the Guadalupe landfill will reach permitted disposal capacity by the year 2048. The maximum extent of landfill footprint closure is 107 acres.
- Final Cover System and Grading. The Plans propose two engineered final covers 1) a cover over the top deck area composed of (from bottom to top): a one-foot foundation layer, a reinforced GCL, a 60-mil HDPE geo-membrane, a geocomposite drainage layer, and a one-foot thick vegetative layer; and 2) over the side slopes: two feet of foundation soil, one-foot of compacted clay, and one-foot of vegetative cover soil. Maximum final slope angles are 2.5h:1v with benches at 50-ft vertical intervals along the slopes. Appropriate drainage and erosion control measures are described in the Plans.

- Landfill Gas Monitoring and Control System. The landfill has a landfill gas (LFG) control system currently comprising 63 vertical extraction wells, three horizontal extraction wells, and two horizontal leachate collectors. The collected gas is conveyed and used at a landfill gas-to-energy (LFGTE) plant operated by Gas Recovery Systems, Inc. The LFG monitoring network consists of six, multiple-depth completed, landfill gas monitoring probes installed around the perimeter of the landfill.
- Geotechnical Design Considerations. Side slopes have been designed for a maximum probable earthquake (MPE) of 7.9 Mw and peak horizontal ground acceleration (PHGA) of 0.45g occurring on the San Andreas Fault located approximately 6 miles from the site. Deformation analysis estimates a seismically-induced slope displacement of 2-inches or less along the steeper 2.5h:1v slopes resulting from calculated yield accelerations of 0.165g (where FS=1.0).

To date, the local Regional Water Quality Control Board (RWQCB) have not reviewed or approved the latest Plan(s). The City of San Jose, Department of Planning, Building and Enforcement, acting as the Solid Waste Local Enforcement Agency (LEA), approved the Plan(s) in a letter dated 17 March 2016.

Please note that it is the operator's obligation to submit plans that are in compliance with the aforementioned requirements. ESB staff's determination that the Plans meet these requirements is not intended nor should be construed to preclude ESB from seeking revisions to the Plans to the extent it is subsequently determined that any part thereof is not in compliance.

Should you have any questions or comments concerning the above matter, please contact Alfred Worcester or Mike Wochnick at (916) 341-6353 or (916) 341-6289, respectively. Alternatively, Closure staff may be reached by email at [alfred.worcester@calrecycle.ca.gov](mailto:alfred.worcester@calrecycle.ca.gov) or [michael.walchonich@calrecycle.ca.gov](mailto:michael.walchonich@calrecycle.ca.gov).

cc: Nevin Yates, Acting Manager, Permits and Assistance North Central Section  
Elizabeth Castaneda, Financial Assurance Section