

CalRecycle Document Not Compliant with Accessibility Standards

The requested document is not posted for viewing on our website because it is not in compliance with California Government Code 11135 Accessibility Standards. If you do not require an accessible compliant document, please select 'Download Now', otherwise select 'Request Accessible Document'.

An accessible document means the document has been formatted to be read aloud by a screen reader (an assistive tool that people with visual impairments use to hear a document read aloud to them). No substantial content is added to an accessible document, but some information may be presented in an alternative format. Questions about the content of the document can be sent to CalRecycle's Office of Public Affairs at opa@calrecycle.ca.gov.

Requested Document Information

Document URL

<https://www2.calrecycle.ca.gov/swfacilities/Document/GetDocument/347451>

Referring URL

<https://www2.calrecycle.ca.gov/swfacilities/Directory/43-AN-0008/Document>

Title

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

Document Date

8/9/2019

File Name

H711 ESB memo PCPCMP

Page Count


2

File Size (KB)

442

Kirby LF Aug 2019.pdf

 Download Now

 Request Accessible Document




MEMORANDUM

Date: August 9, 2019

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

Through: 
Michael Wochnick, P.E., Manager
Closure and Technical Support Section

From: 
Alfred P. Worcester, P.G., C.E.G.,
Closure and Facility Engineering Unit
Engineering Support Branch
DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY

**SUBJECT: KIRBY CANYON LANDFILL, CITY OF SAN JOSE (43-AN-0008)
PRELIMINARY CLOSURE AND POSTCLOSURE MAINTENANCE PLANS
REVIEW COMMENTS**

Engineering Support Branch (ESB) Closure and Facility Engineering Unit (Closure) staff have reviewed the following closure documents for the Kirby Canyon Landfill:

- *Preliminary Partial Closure/Postclosure Maintenance Plan (Plans), Kirby Canyon Recycling and Disposal Facility, City of San Jose, Santa Clara County, California; dated 2 January 2018; prepared by Waste Management of California, Inc.*

Kirby Landfill is an active Class III landfill owned and operated by Waste Management, Inc. It comprises 311-acres divided into 7 phase including an active landfill area of 161-acres. The landfill has a facility boundary that comprises 411 acres. Staff reviewed the Plans and cost estimates in accordance with applicable CalRecycle requirements under Title 27 California Code of Regulations (27CCR).

Pertinent Facility Characteristics

- Financial Assurance Cost Estimates: Final cost estimates: Closure - \$ 25,175,221; Postclosure Maintenance - \$ 443,776 (annual average) (2017 dollars).
- Closure Date and Maximum Extent: the anticipated closure date is 2044. Maximum extent of landfill closure is 141-acres.

- **Final Cover System and Grading:** the Plans propose an alternative final cover composed of a 2-foot foundation soil layer, a 1.5 feet of low permeability soil layer, 60-mil geomembrane underlain by a GCL, a geocomposite drainage layer, and finally, a 1-foot vegetative layer. Maximum final slope angles are 3h:1v with benches at 50-ft vertical intervals and drainage and erosion controls. The maximum elevation of the landfill is 1,175 feet above MSL.
- **Landfill Gas Monitoring and Control System:** the landfill has an active landfill gas (LFG) extraction and control system and a perimeter LFG monitoring system. The system consists of 58 horizontal and vertical collection wells and a LFG flaring facility. The perimeter-monitoring network consists of 13, dual-completion LFG probes.
- **Geotechnical Design Considerations:** side slopes have been designed for a maximum credible earthquake (MCE) of 7.2 Mw and peak horizontal ground acceleration (PHGA) of 0.63g occurring on the Hayward-Calaveras Fault located approximately 2 miles southwest of the site. Deformation analysis estimates a liner movement of less than 12 inches for the proposed final slopes.

ESB staff conclude that the Plans are consistent with applicable closure/postclosure standards pursuant to 27CCR.

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

CC: Patrick Snider, Supervisor, Permitting and Assistance – North Unit
Nevin Yates, Manager, Permitting and Assistance Section – North
Elizabeth Felix, Financial Assurances Unit