

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT STATIONARY SOURCE COMPLIANCE DIVISION PERMIT APPLICATION PROCESSING AND CALCULATIONS	PAGES	PAGE 1
	APPL NO 510146	DATE 9/16/10
	PROCESSED BY TK	CHECKED BY

Applicant

Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

Equipment Location

SAME

Equipment Description

TITLE V PERMIT REVISION

History

The Sunshine Canyon Landfill is an active Class III landfill. The site is surrounded by hills and a freeway with the exception of the south side where a housing complex is located approximately half a mile. A/N 510147 was submitted to install a second landfill leachate/condensate collection and treatment system. This system will be used to treat leachate/condensate with higher voc content with the use of a Powder Activated Carbon Treatment (PACT) reactor. A Rule 441 research operation was performed in order to determine the efficiency of the Powder Activated Carbon Treatment (PACT) reactor under A/N 510401 to see if the VOC concentrations in the leachate/condensate will not exceed 45 ug/l. The test showed less than 5 ug/l.

Process Description

Landfill condensate/leachate will be pumped into an 8,000 gallon influent tank. In addition, an emergency condensate/leachate storage tank with 12,000 gallons will be installed for emergency overflow. The condensate/leachate will then be pumped into two PACT reactors (4,000 gallon batch) connected in parallel. Prior to entering the PACT reactors, the liquid will be treated with sodium hydroxide and nutrients such as ammonium phosphate/phosphoric acid will be added. Air will be pumped into the reactor at 300 cfm in order to enhance the reaction. The PACT media grows bacteria on its surface and adsorbs volatile organic compounds and other compounds which are then biodegraded by the activated sludge bacteria to essentially CO2 and water. When treatment is completed, the condensate will be pumped into a 500 gallon effluent tank for onsite use. Sludge from the PACT reactors will be pumped into a storage tank for offsite disposal. The sludge will be filter pressed and the water will be recycled thru the treatment system. The sludge cake will be tested and if hazardous, shipped offsite. If not hazardous, it will be landfilled at the working face. The influent surge and sludge storage tank will each be passively vented to a 200 lb activated carbon drum. The PACT reactors will each be passively vented to two carbon adsorbers in series, each with 2,000 pounds of activated carbon.

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Evaluation

A Title V permit was issued to this facility in October 5, 2004.

This is a “de minimus” permit revision which requires a 45 day EPA notice. A public notice is not required.

Conclusions and Recommendation

Recommend issuing a revised TV Permit after a 45 day EPA notice.