



California Regional Water Quality Control Board

Santa Ana Region



Peter M. Rooney
Secretary for
Environmental
Protection

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Pete Wilson
Governor

M60050_004134
MCAS EL TORO
SSIC NO. 5090.3.A

December 3, 1998

Mr. Joseph Joyce
BRAC Environmental Coordinator
AC/S Environmental (1AU)
Marine Corps Air Station El Toro
P. O. Box 95001
Santa Ana, CA 92709-5001

DRAFT TECHNICAL MEMORANDUM, UNSAT-H INFILTRATION MODELING FOR LANDFILL COVERS, MARINE CORPS AIR STATION EL TORO

Dear Mr. Joyce:

We have completed our review of the above report dated October 22, 1998. We have the following comments:

Proposed Borrow Source Soils

From review of Figure 4 on page 6, it would appear that the soil samples were collected from or near the surface. If samples were only collected from near the surface, then additional characterization should be conducted on the borrow soil area, such as soil borings in order to collect soil samples at various depths. It should also be determined if there are sufficient quantities of borrow soils of the appropriate hydraulic conductivity present for covering all four landfills.

Climate data

Please explain why rainfall records for Los Angeles were used instead of rainfall records for El Toro MCAS. A comparison of the Los Angeles rainfall data and the El Toro rainfall data should be included in this report in order to show whether or not the rainfall data used in the model was appropriate for the site.

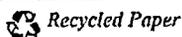
Site 2 and 17

Please describe the native vegetation which will be used to vegetate the covers of sites 2 and 17.

Vegetation

Please explain why the root zone depth was assumed to be 2 feet. The root zone depth will vary depending on the type of vegetation.

California Environmental Protection Agency



received
12/7/98

Mr. Joyce

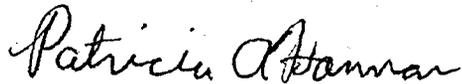
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Additional investigation and/or characterization of the borrow soils, vegetation, proposed thickness of the cover need to be conducted in order to make a valid comparison between the prescriptive cover and the proposed alternative cover under an irrigated scenario.

As a reminder please keep us informed on CEQA related issues related to this project. If you should have any questions, please call me at (909) 782-4498.

Sincerely,



Patricia A. Hannon
DoD Section

cc: Dept. of Toxic Substances Control - Tayseer Mahmoud
Kutak Rock, Attorneys - Gregory F. Hurley
Naval Facility Engineering Command, SWDIV - Andy Piszkin
U. S. EPA, Region IX - Glenn Kistner

California Environmental Protection Agency

