



31 August 1993

305924-ITNHO-0004

Mr. Joseph Joyce  
Code 1832.JJ  
Naval Facilities Engineering Command  
1220 Pacific Highway  
San Diego, CA 92132-5183

**RE: Site Walk Report  
Site 11 - Hillside East of Dry Dock 1  
Long Beach Naval Shipyard  
Long Beach, California**

Dear Mr. Joyce:

The questions and concerns expressed by the Department of Toxic Substances Control (DTSC) after reviewing the LBNC-Site 11: Site Walk Report have been addressed below. The DTSC question appears in italics followed by the IT response in bold.

*Question #1. Section 4.1, Bullet 3 under Human Health:*

*Please revise this section to reflect the true status of the groundwater at LBNC (i.e. a determination of the beneficial uses of the groundwater will be made following the RWQCB's review of the Phase II RFI (RI/FS) reports).*

**Response: Bullet 3 under Human Health will be revised to read as follows:**

- **Groundwater ingestion: The determination of the beneficial uses of the groundwater will be made following the RWQCB's review of the Phase II RFI (RI/FS) report.**

*Question #2. Alternative #3 may be acceptable to the DTSC, however, an evaluation should be made concerning the following issues:*

- *What type of leachate and run-off controls will be implemented to minimize (or not exacerbate) impacts to groundwater and surface water from both natural precipitation and anthropogenic irrigation.*

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Mr. Joseph Joyce  
 31 August 1993  
 Page 2

**Response:** Alternative #3 does not provide a positive barrier to the percolation of either natural precipitation or irrigation. However, the sprinkler irrigation system can be adjusted so that the amount of water applied to the ground is sufficient to sustain plant growth by satisfying specific retention values of the soil with little or no excess to contribute to specific yield.

Contaminant migration by surface water run-off will be mitigated by the installation of silt fences which will surround the site.

*Question #3:*

- *The plant species selected to revegetative bare areas should be of a nature requiring minimal irrigation.*

**Response:** Prior to the selection of a species to revegetative the bare areas, the soil will be tested for the following characteristics; ph, soil texture, nitrogen, phosphorus and potassium. If necessary, the soil will be conditioned by commercial fertilizers to obtain optimum conditions. Consideration will also be given to the concentrations of the metal ions found in the soils during the Preliminary assessment Study of Site 11 by Jacobs Engineering Group, Inc. Therefore, an appropriate species will be selected that will tolerate these conditions as well as being drought resistant.

- *The species selected should also be capable of effectively covering the bare areas with a minimal amount of biomass (future remedial activities may require the disposal of vegetation at the site in a hazardous waste landfill).*

If alternative #3 is selected, the iceplant currently in place that is alive and healthy will remain. The variety has a large biomass. Currently under consideration is another species ice plant called red apple which has a smaller biomass, is desiccation tolerant and is tolerant of the moderately contaminated conditions that exist along roadsides and highways. Also under consideration are various types of low vegetation cover that can be applied by hydroseeding and require no maintenance but some irrigation is necessary.

- *What measures will be implemented to adjust the amount of irrigation required during wet or dry periods.*

To be included in Alternative #3 is an operation and maintenance (O&M) budget to obtain the necessary landscaping services that will adjust the irrigation system when

Mr. Joseph Joyce  
31 August 1993  
Page 3

**necessary to obtain optimum moisture to the vegetative cover with little or no percolation or run-off.**

- *Should a combination of alternatives be considered for the site (i.e. the hillside could be revegetated as necessary while the level area adjacent to building 174 could be covered)?*

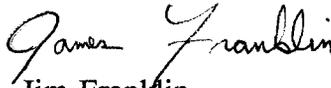
**It is possible to combine alternatives. The slope area can be revegetated as proposed in alternative #3 and the flat area adjacent to building 174 could be covered with asphalt to form an extension to the existing parking lot behind Building 174. The sand blast grit within this area could also be excavated and either disposed or recycled.**

If you have any comments or questions, please call the undersigned at (619) 554-0510.

Sincerely,  
IT CORPORATION



Ken Kazmerski  
Project Geologist



Jim Franklin  
Project Manager

KK/JF:eab

cc: J. Jeffrey, NEESA Code 112E4  
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Contract File