



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

received
4-3-93

DIVISION OF AIR AND HAZARDOUS MATERIALS
291 Promenade Street
Providence, R.I. 02908-5767

April 20, 1993

Francisco A. La Greca
Remedial Project Manager
U.S. Department of the Navy
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway
Code 1823-Mail Stop 82
Lester, PA 199113-2090

RE: Design Analysis for 35% Design Development Submission - Groundwater Treatment Interim Remedial Action near Tanks 53 and 56 at Tank Farm Five, Newport Education and Training Center, Newport, Rhode Island: January 1993

Dear Mr. La Greca:

Please find attached comments generated by the Division of Site Remediation (formerly the Division of Air and Hazardous Materials) concerning the abovementioned documents. If you have any questions concerning the comments, please contact me at (401) 277-2797.

Sincerely,

Paul Kulpa
Paul Kulpa, Project Manager
Division of Site Remediation

cc: Warren S. Angell, DEM DSR
Greg Fine, DEM DSR
Andrew Miniuks, EPA Region I

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DESIGN ANALYSIS FOR 35% DESIGN DEVELOPMENT SUBMISSION:

- 1. Inorganic Contaminants Treatment, Page 25:
Section 2.3, Paragraph 2.**

The report states that alternative means of metal contamination removal were considered during the screening design process. The report should list these alternate processes and provide detailed rationales for the exclusion of these alternatives.

- 2. Ground Water Extraction, Page 22:
Section 2.2, Table 1.**

The report states that the pretreatment requirements for iron and total suspended solids are necessary in order to avoid fouling the UV system. The report should state whether alternate UV systems require the same pretreatment activities.

- 3. Free Product Source Recovery, Page 27:
Section 2.9, Paragraph 6.**

The report states that the current design package does not include any provision for free product recovery. The report should note the thickness of the free product layer at the site. If this layer is substantial, provisions should be made to remove the free product. In addition, all wells installed at the site should be tested for NAPLs.

- 4. Civil Engineering Calculations, Sheet 8 of 9:
E. Roadways, Paragraph 1.**

The report indicates that an asphalt driveway and parking area are necessary in order to handle the projected loads. The report should note whether the proposed areas for the driveway will impinge upon any areas scheduled for soil remediation. In addition, justification is requested for the use of the asphalt driveway at the site.