

BELING CONSULTANTS

Professional Engineering and Environmental Services

July 31, 1998

Illinois Environmental Protection Agency
Bureau of Land
UST Section – Federal Facility
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attention: Donald Harrison, Environmental Protection Specialist

**SUBJECT REMEDIAL INVESTIGATION REPORT
FIRE FIGHTING TRAINING UNIT
GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS**

Dear Mr. Harrison:

On behalf of our Client, the Department of the Navy, please find the enclosed Remedial Investigation Report for the referenced project.

The Report summarizes the subsurface investigation work performed at the site. The results of the laboratory analyses indicate that the contamination at the site is petroleum related and some residue contamination remains on site.

The Report also includes a Tier 1 and Tier 2 analysis according to the Tiered Approach to Corrective Action Objectives (TACO), 35 IAC Part 742. The analytical results at the site were compared to the residential remediation objectives in TACO. The Tier 1 Remediation Objectives were exceeded for the following routes of exposure:

- Groundwater ingestion for benzene and naphthalene
- Soil migration to groundwater for benzene, ethylbenzene and toluene and xylene

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The Tier 2 analysis includes modeling of the groundwater ingestion and the soil migrating to groundwater routes of exposure. The modeling indicates that the contamination will not migrate off site, and will not impact the nearest receptor, the headwaters of Skokie Ditch. Since the Tier 1 Remediation Objectives were exceeded, Great Lakes Naval Training Center proposes an institutional control to prohibit the installation and use of potable water supply wells.

An engineering barrier to prevent potential inhalation exposure is not recommended since contaminated soil, although detected in excess of the inhalation objective for benzene, is below 3 feet of depth and is (or will be) below the water table. The soil leaching to groundwater model clearly covers the likely exposure route, if any, for the residual soil contamination.

Great Lakes Naval Training Center will be submitting a separate request for site closure. That submittal will include a copy of the institutional control and a description of the procedures for implementation.

Thank you for your assistance with this project.

Sincerely,

BELING CONSULTANTS, INC.



Fred W. Lawrence, CPG
Senior Hydrogeologist



Molly E. Arp Newell, PG, CHMM
Manager, Environmental Compliance

cc: Job #29886