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NTC ORLANDO
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LETTER SUMMARIZING INTERIM REMOVAL ACTION AT STUDY AREA 52 NTC ORLANDO
FL
4/22/1997
ABB ENVIRONMENTAL



April 22, 1997

8545.320

Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, SC 29411-0068

ATTN: Ms. Barbara Nwokike, Code 187300

SUBJECT: Interim Removal Action for Study Area (SA) 52
Naval Training Center (NTC), Orlando, Florida
Contract No. N62467-89-D-0317/107

Dear Barbara:

As you requested on April 21, 1997, this letter provides information to support soil removal at Study Area 52 at NTC, Orlando.

The recommended area of excavation is shown in the figure enclosed. The conservative estimated volume of soil (in place) to be removed is 1470 yd³. This estimate assumes soil will be removed to the water table, approximately 4 feet below level surface. Based on sampling conducted to date, removal of this volume of soil should be adequate to meet residential Florida Soil Cleanup Goals with one mobilization. The following are the action levels anticipated to be met.

Pesticides	Residential Soil Cleanup Goal ¹ , ug/kg ²
4,4'-DDD	4,500
4,4'-DDE	200 ³
4,4'-DDT	3,100
Total Chlordane	800
Dieldrin	20 ³
Endosulfan I	390,000
Endrin	23,000
Endrin Ketone	ND
Heptachlor	60 ³
Heptachlor Epoxide	100

¹ Florida Department of Environmental Protection Soil Cleanup Goals, September 27, 1995.

² micrograms per kilogram

³ Leaching Soil Cleanup Goal (Compound detected in groundwater above standards.)

ABB Environmental Services Inc.

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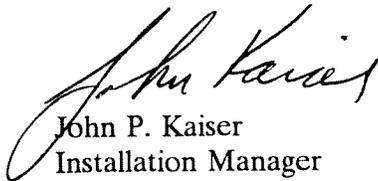
Telephone (407) 895-8845
Fax (407) 896-6150

The following are issues the removal contractor should consider.

- 1) The excavation area is located near a railroad track. Excavation in this area may need to be limited so that differential settlement of the railroad foundation does not occur, and may require oversight and approval by the owner of the railroad right of way.
- 2) The removal contractor will need to perform characterization sampling.
- 3) Florida-certified clean fill for backfilling of the excavation after review of confirmatory sampling results is required. Also, disposal of investigative-derived wastes from decontamination activities will be the responsibility of the removal contractor.
- 4) ABB-ES believes that the soils at SA 52 are considered listed hazardous wastes as defined by the Resource Conservation and Recovery Act because pesticide chemicals not used for their intended purpose (i.e., P-listed wastes) have most likely contaminated soils at this site.
- 5) The excavation is anticipated to be approximately 4 feet deep. Shoring or sloping of the excavation will likely be required for health and safety considerations to allow equipment and sampling personnel to enter the excavation.
- 6) An overhead utility line runs into the site and stops at an utility pole located in the middle of the excavation. In addition, a water line runs into the excavation area.

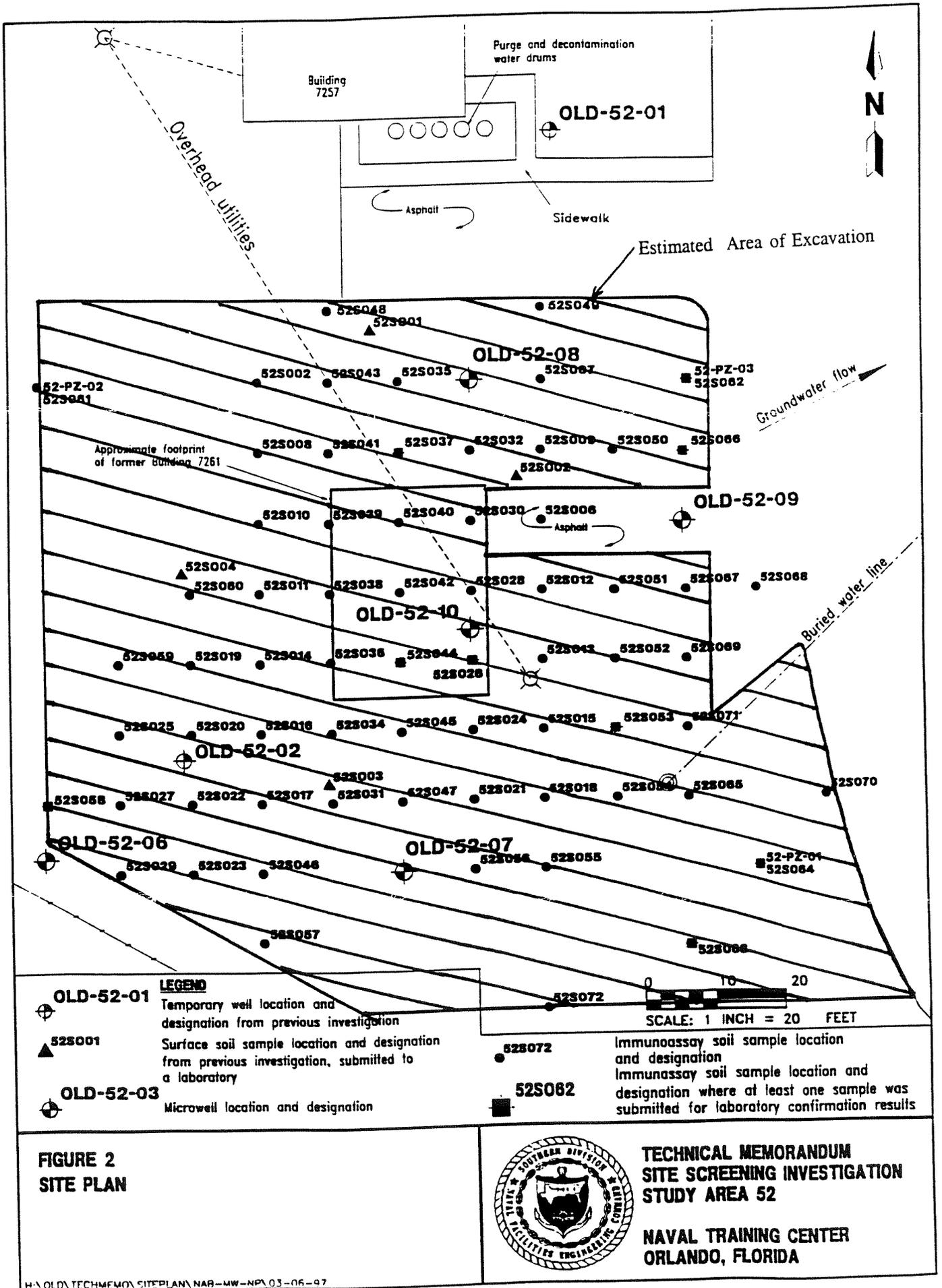
If you have any further questions or comments, please call Marc Hawes at (407) 895-8845 or Rick Allen at (904) 269-7012. We look forward to further discussions in May.

Very Truly Yours,
ABB ENVIRONMENTAL SERVICES, INC.



John P. Kaiser
Installation Manager

cc: W. Hansel (SDIV) Lt. G. Whipple (NTC, ORL)
N. Rodriguez (USEPA) O. MacNeil (Bechtel)
J. Mitchell (FDEP) S. McCoy (Brown&Root)



**FIGURE 2
SITE PLAN**



**TECHNICAL MEMORANDUM
SITE SCREENING INVESTIGATION
STUDY AREA 52**

**NAVAL TRAINING CENTER
ORLANDO, FLORIDA**