Enclosures for

JL Colter Letter of December 27, 2002

NWIRP Bethpage, New York

[ ] **Enclosure 1 - Navy Responses to NYSDEC Comments on Petition to Modify Boundaries**

[X] **Enclosure 2 – Sites 2 and 3, Construction Completion Report Certification**

[ ] **Enclosure 3 – Legal Description of Property to be Retained by Navy**

[ ] **Enclosure 4 – Navy Responses to various NYSDOH comments**

[ ] **Enclosure 6 – NYSDEC Letter of October 23, 1997**

[ ] **Enclosure 7 – Supplemental Surface Soil Results for Site 2**

CERTIFICATION OF COMPLETION

CONSTRUCTION COMPLETION REPORT FOR SITE 2 – RECHARGE BASIN AREA AND SITE 3 – SALVAGE STORAGE AREA NWIRP BETHPAGE, NEW YORK

In July 1995, the United States Navy and New York State Department of Environmental Conservation signed a Record of Decision (ROD) for soils at Sites 1 – Former Drum Marshalling Area, Site 2 – Recharge Basin Area, and Site 3 – Salvage Storage Area at the Naval Weapons Industrial Reserve Plant, Bethpage, located in Nassau County, New York. The ROD identified several actions to be conducted including excavation and off site disposal of a portion of the contaminated soils, in-situ treatment of soils contaminated with volatile organic compounds, and placing a permeable cover over the soils with residual contamination. In addition, the ROD specified restrictions on the future use of the land so as to prevent unacceptable exposure to residual site contamination.

The majority of contamination identified at the NWIRP Bethpage, and in particular those contaminants that represent a threat to groundwater quality (i.e. volatile organic compounds), were associated with Site 1. Contaminants and associated risks identified with Site 2 and Site 3 were primarily associated with relatively low volatile and water insoluble organics and metals, and represent a potential risk to those personnel that would directly contact the contaminated soils over a long period of time.

Prior to the placement of a permeable cover in 2001, other remedial activities were conducted at Site 2 and Site 3. In 1996, the Navy excavated and disposed off site, PCB-contaminated soils from Site 2. In 1998, as part of the general facility cleanup, Northrop Grumman removed the large debris, scraped surface soils to collect smaller surface debris, and then placed two inches of cover soil over Site 3. Asphalted areas at Site 3 were not disturbed.

Based on these remedial actions, the Navy determined that the quality of the surface soil at Site 2 – Recharge Basin Area and Site 3 – Salvage Storage Area at the NWIRP Bethpage, New York should be re-evaluated, and in particular, surface soil testing should be conducted to delineate areas that require additional permeable cover.

Surface soil samples were collected in late February 2001 and analyzed for site specific chemicals of concern consisting of metals, polynuclear aromatic hydrocarbons, and polychlorinated biphenyls. Based on the analytical testing, the chemicals of concern were found to be present in one or more samples at concentrations greater than the remedial goals. The test results were presented in a report for Site 2 and Site 3 "Soil Sampling Results and Workplan for Application of Permeable Cover; NWIRP Bethpage, New York" dated June 21, 2001. This report recommended that a permeable soil/gravel cover be placed over most of Site 2. The report also recommended that additional permeable cover, beyond that placed at Site 3 in 1998, was not required.

The Navy then contracted Cape Environmental to install the permeable cover for Site 2. Cape Environmental prepared a "Implementation Work Plan for Application of a Permeable Soil/Gravel Cover at IR Site 2 – Recharge Basin Area" dated October 5, 2001. The Navy provided construction oversight services during the implementation of the remedy. Construction details and records are provided in "Construction Completion Report for Site 2 – Recharge Basin Area and Site 3 – Salvage Storage Area" dated May 2002.

The June 2001 and October 2001 plans detailed the placement of a permeable cover at Site 2. This permeable cover was to consist of a minimum of 6 inches of soil or gravel at locations as indicated in the June 21, 2001 report. Based on a review of the data presented in the May 2002 report, including weigh tickets, photographs, test hole cover thickness measurements, and site records, minimum cover thickness requirement was met.

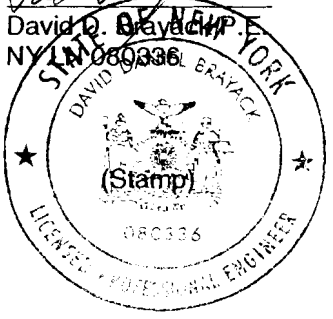
The Site 2 permeable soil cover was vegetated using a hydro-seeding method. This activity occurred in December 2001, and beyond a normal season for seeding. As such, seed germination and plant growth were slow. By the fall of 2002, the entire area was observed to be vegetated, although the quantity of vegetation was sparse. The silt fence was removed from the site in October and November 2002, and this removal completed the remedial activities.

On November 21, 2002, I conducted an inspection of Site 2 and Site 3. The soil cover at Site 2 and Site 3 is intact and stable with no significant evidence of erosion. Only minor soil erosion was noted near a storm drain in the center of the recharge basins at Site 2. However because of its minimal nature, no additional action is required. The gravel roads constructed at Site 2 were noted to be relatively stable, with no evidence of rutting. Natural and planted vegetation is sparse, but established and present throughout Sites 2 and 3.

With the exception of the recharge basins, both Site 2 and Site 3 are relatively flat. However, because of the concern for potential erosion of the cover soil around the Site 2 recharge basins, the edges of the recharge basins were inspected. The edges of the basins were observed to be surrounded with soil berms that would limit erosion associated with surface water flow directly into the basins. Also, there was no evidence of significant soil erosion from Site 2 directly into these basins or on the relatively steep basin side walls. Because of the naturally sandy nature of the soils, precipitation at Site 2 does not likely pond or runoff on the surface, but infiltrates directly into the soils. Natural brush type vegetation was also noted to be growing on some of the recharge basin side walls.

Therefore, based on a review of the historical data, the construction completion report documentation, and the November 2002 site visit, I certify that the remedial construction for Site 2 and Site 3 was completed in accordance with the approved remedial design and complies with the intent of the work specified in the design.

David D. Brayack, P.E.
NY LIC. 080336



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Date

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Unauthorized alteration or addition to this report is a violation of Section 7209 of the New York State Education Law.

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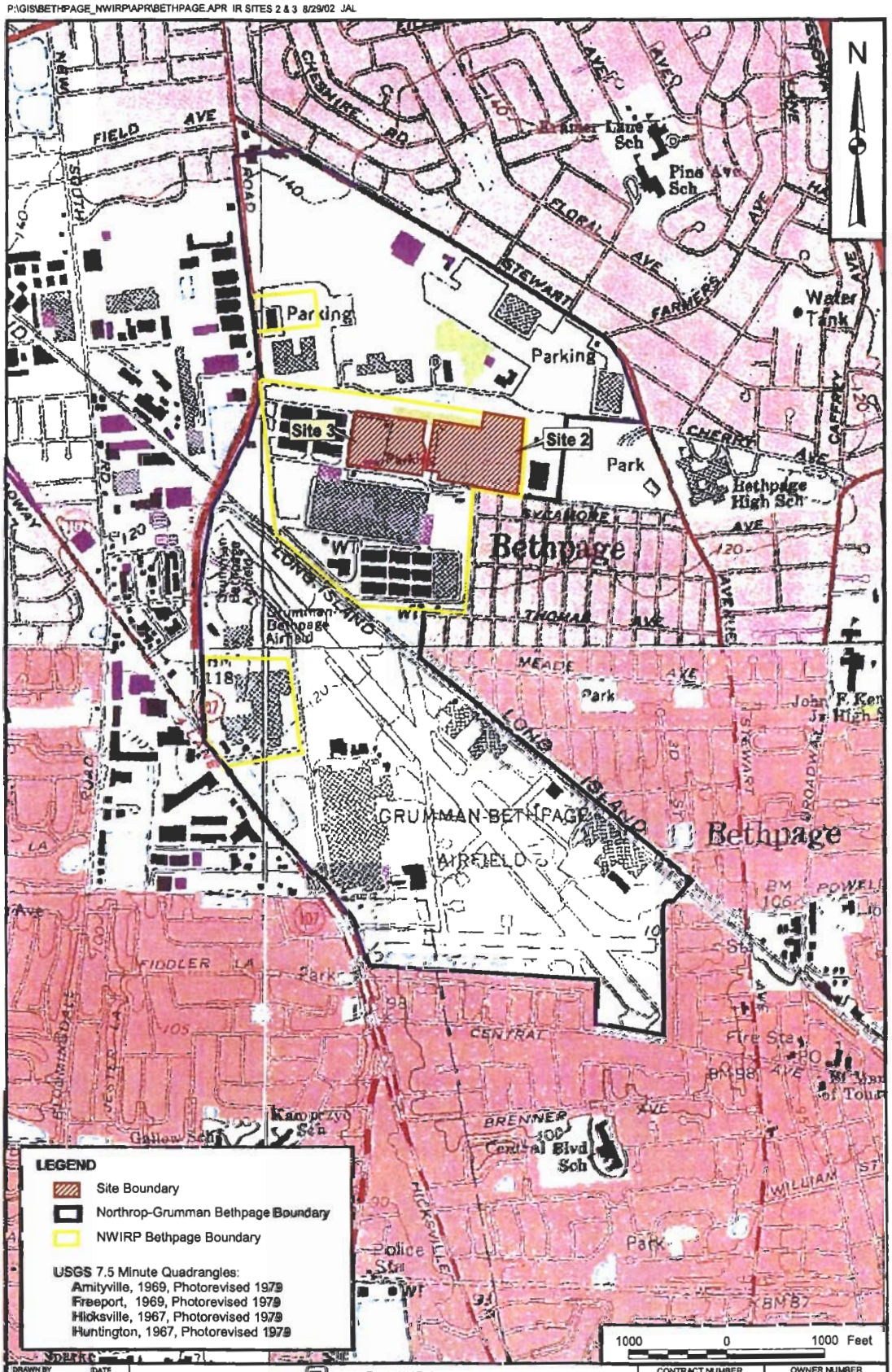

DRAWN BY	DATE	Tetra Tech NUS, Inc.	CONTRACT NUMBER	OWNER NUMBER
J. LAMEY	8/29/02			
CHECKED BY	DATE		APPROVED BY	DATE
COST/SCHEDULE-AREA		SITE LOCATION MAP NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK	APPROVED BY	DATE
SCALE	AS NOTED		DRAWING NO. FIGURE 1-1	REV 0