DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
10 INDUSTRIAL HIGHWAY
MAIL STOP, #82
LESTER, PA 19113-2090

5090
Ser 1923/1823/MAP

IN REPLY REFER TO

AUG 11 1993

Mr. Michael Daly
U.S. Environmental Protection Agency
Region I
J.F.K. Building
Boston, MA 02203

Dear Mr. Daly,

Remediation work was performed at the Creosote Dip Tank area in NCBC Davisville, starting with an initial removal in March 1992, followed by two additional rounds of removal on the west side of the original excavation. The additional removals were done as a result of the confirmatory sampling which showed that action levels had not been attained. The last removal action at the site was completed in May 1993. The enclosed figures present the extent of the 3 phases of removals and the results of the confirmation sampling after each phase.

Our consultant, Halliburton NUS, is currently preparing a report to address the residual risk posed by the levels of contamination remaining on site. The final report is anticipated to be submitted to the Navy by 13 August 1993, and will be forwarded to you shortly thereafter.

The preliminary data indicates that residual risk is within the acceptable risk range for CERCLA cleanups, thus the Navy plans to close out the removal activities at the creosote tank area.

Please call me at (215) 595-0567 ext. 155 at any time should you wish to discuss this further.

Sincerely,

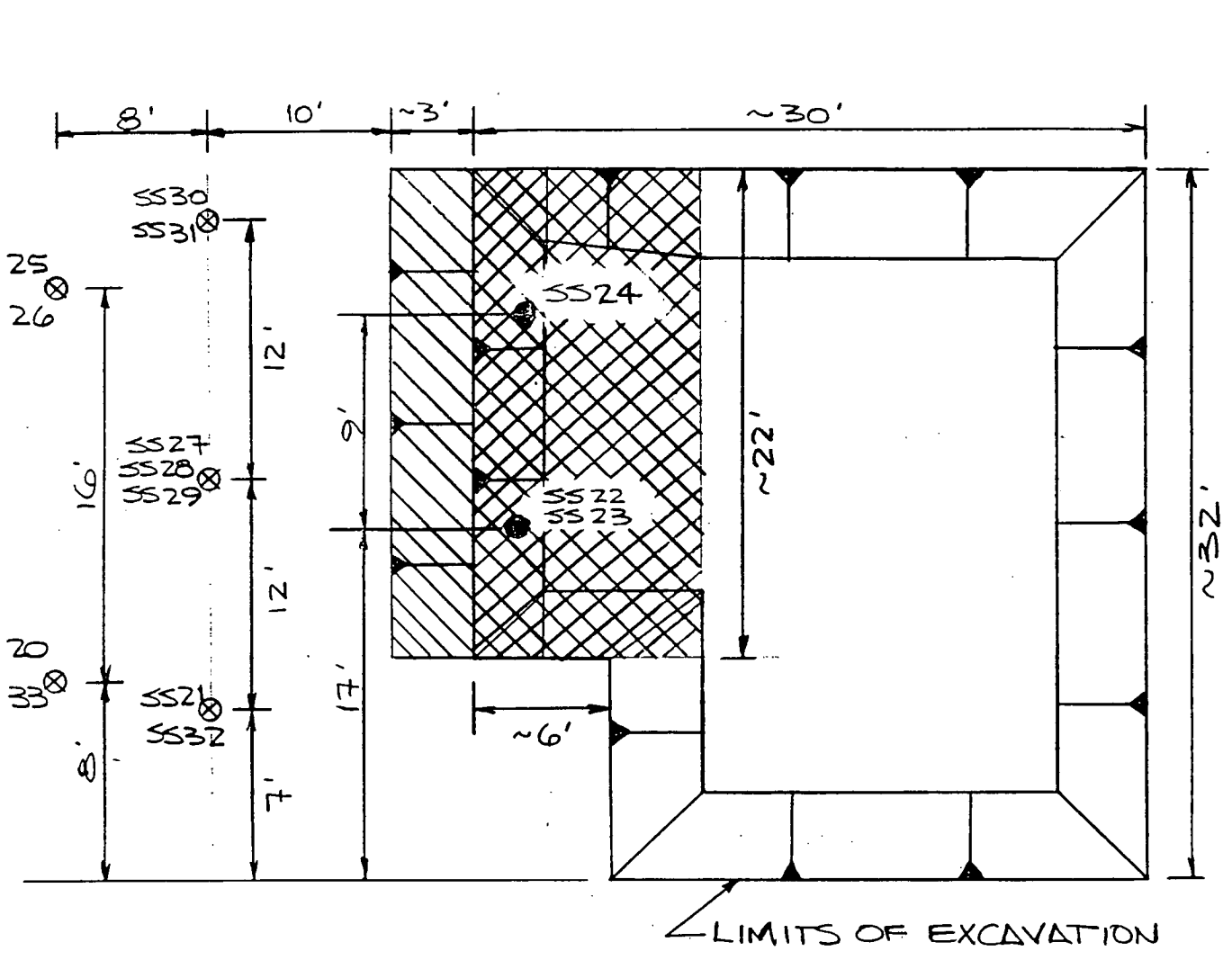
F. A. LaBruna.

for MARILYN A. POWERS
Remedial Project Manager
By direction of the Commanding Officer

Copy to:
NCBC Davisville, Cdr. Buchholz

Internal Copy to:
Code 09ATC/Phil Otis

| HALLIBURTON NUS Environmental Corporation and Subsidiaries | | | STANDARD CALCULATION SHEET |
|---|---|---|---|
| CLIENT: NAVY CLEAN GO#4 | FILE NO.: 3568.1400 | BY: S. RUFFING | PAGE 1 OF 1 |
| SUBJECT: DAVISVILLE NCBC - CREOSOTE DIP TANK | | CHECKED BY: | DATE: 5/29/93 |




— LIMITS OF PHASE II EXCAVATION

— PHASE III EXCAVATION

⊗ — DEEP (~30'-42") AND SURFACE (0"-12") SOIL SAMPLE

— SOIL SAMPLE FROM SIDEWALL OF PHASE II EXCAVATION

FIGURE 1

Table 1
Task 1400 Sampling Location Summary

| Type of Sample | Sample Number | Approximate Depth Below Ground Surface | Comments |
|---|---|---|---|
| Confirmatory | SS-22 | ~3' - 4' | Duplicate of SS-23 - sidewall of Phase III excavation |
| | SS-23 | ~3' - 4' | Duplicate of SS-22 - sidewall of Phase III excavation |
| | SS-24 | ~3' - 4' | Sidewall of Phase III excavation |
| Supplemental | SS-20 | 0" - 12" | Deep sample from this location is SS-33 |
| | SS-21 | 0" - 12" | Deep sample from this location is SS-32 |
| | SS-25 | 0" - 12" | Shallow |
| | SS-26 | 31" - 39" | Deep |
| | SS-27 | 0" - 12" | Shallow |
| | SS-28 | 30" - 44" | Deep (duplicate of SS-29) |
| | SS-29 | 30" - 44" | Deep (duplicate of SS-28) |
| | SS-30 | 0" - 12" | Shallow |
| | SS-31 | 23" - 27" | Deep (refusal) |
| | SS-32 | 29" - 40" | Matrix Spike (double volume) |
| | SS-33 | 30" - 32" | (refusal) |

Table 2

Task 1400 Analytical Results

Creosote Dip Tank Site
NCBC Davisville, Rhode Island
(all concentrations in mg/kg)

| Analyte | Project Action Level | Confirmatory Analysis | | | Supplemental Analysis | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SS-22 | SS-23 | SS-24 | Surface SS-20 | Surface SS-21 | Surface SS-25 | Deep SS-26 | Surface SS-27 | Deep SS-28 | Deep SS-29 | Surface SS-30 | Deep SS-31 | Deep SS-32 | Deep SS-33 |
| Acenaphthene | --- | 0.66 J | 0.55 J | 0.59 J | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Acenaphthylene | --- | 1.5 U | 1.5 U | 1.5 U | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Anthracene | --- | 2.9 | 3.3 | 10.0 | 0.35 U | 0.35 U | 0.39 | 0.39 J | 0.35 U | 0.39 U | 0.38 U | 0.32 J | 0.37 U | 16.0 J | 0.35 U |
| Benzo(a)anthracene | 0.41 | 1.3 J | 1.4 J | 0.36 J | 0.35 U | 0.35 U | 0.12 J | 0.34 J | 0.071 J | 0.087 J | 0.051 J | 0.19 J | 0.11 J | 180.0 | 0.14 J |
| Benzo(a)pyrene | 0.061 | 0.64 J | 0.80 J | 0.15 J | 0.35 U | 0.35 U | 0.11 J | 0.41 | 0.046 J | 0.083 J | 0.38 U | 0.13 J | 0.10 J | 160.0 | 0.14 J |
| Benzo(b)fluoranthene | 0.44 | 1.4 J | 1.5 | 0.25 J | 0.35 U | 0.35 U | 0.23 J | 0.65 | 0.069 J | 0.14 J | 0.073 J | 0.30 J | 0.14 J | 230.0 | 0.22 J |
| Benzo(g,h,i)perylene | --- | 1.5 U | 1.5 U | 1.5 U | 0.35 U | 0.35 U | 0.36 U | 0.28 J | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.054 J | 49.0 J | 0.35 U |
| Benzo(k)fluoranthene | 0.92 | 0.54 J | 0.56 J | 0.19 J | 0.35 U | 0.35 U | 0.052 J | 0.21 J | 0.35 U | 0.051 J | 0.38 U | 0.077 J | 0.072 J | 68.0 J | 0.061 J |
| Chrysene | 14 | 1.4 J | 1.8 | 0.38 J | 0.35 U | 0.35 U | 0.24 J | 0.59 | 0.052 J | 0.11 J | 0.043 J | 0.35 J | 0.11 J | 150.0 | 0.12 J |
| Dibenzo(a,h)anthracene | 0.054 | 1.5 U | 1.5 U | 1.5 U | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Dibenzofuran | --- | 0.73 J | 0.56 J | 1.4 J | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Fluoranthene | --- | 3.7 | 3.9 | 1.2 J | 0.35 U | 0.35 U | 0.46 | 0.88 | 0.090 J | 0.14 J | 0.071 J | 0.69 | 0.14 J | 270.0 | 0.23 J |
| Fluorene | --- | 0.87 J | 0.85 J | 4.0 | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Indeno(1,2,3-cd)pyrene | 0.26 | 1.5 U | 0.44 J | 1.5 U | 0.35 U | 0.35 U | 0.36 U | 0.32 J | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.063 J | 69.0 J | 0.35 U |
| 2-Methylnaphthalene | --- | 1.5 U | 1.5 U | 0.62 J | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Naphthalene | --- | 1.5 U | 1.5 U | 0.19 J | 0.35 U | 0.35 U | 0.36 U | 0.40 U | 0.35 U | 0.39 U | 0.38 U | 0.37 U | 0.37 U | 73.0 U | 0.35 U |
| Phenanthrene | --- | 3.1 | 2.7 | 5.4 | 0.35 U | 0.35 U | 0.27 J | 0.42 | 0.35 U | 0.088 J | 0.38 U | 0.37 | 0.053 J | 35.0 J | 0.075 J |
| Pyrene | --- | 5.4 | 4.6 | 1.1 J | 0.35 U | 0.35 U | 0.39 | 1.1 | 0.075 J | 0.17 J | 0.065 J | 0.60 | 0.11 J | 280.0 | 0.22 J |

U Undetected.
J Estimated (value below RDC).

NOTES:
1. SS-22, SS-23, SS-28, and SS-29 are field duplicates.
2. Shaded numbers indicate concentration exceeds project action level.