Section: 01.07
Site 20903-5640 (White Oak)
Doc. #: 0006

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NSWC WHITE OAK
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MEMORANDUM

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DATE: April 17, 2002

SUBJECT: Site 4 subsurface soil sampling
Monitoring well installation

The following memorandum outlines the plan for additional subsurface soil sampling and groundwater monitoring well installation at Installation Restoration Program (IRP) Site 4 (Chemical Burial Area) at the former Naval Surface Warfare Center (NSWC) White Oak.

BACKGROUND

A removal action was performed by IT/OHM (the Naval Facilities Engineering Command Atlantic Division Remedial Action Contractor) between June and August 1999. Approximately 23,000 tons (18,000 cubic yards) of contaminated soil and solid waste were removed from Site 4 and transported to a municipal solid waste landfill for disposal. An additional 187 tons of polychlorinated biphenyl (PCB)-contaminated soil were excavated and disposed at a hazardous waste landfill. Figure 1 provides the approximate limits of excavation.

During the removal action, excavation proceeded until no trash was visible and no organic vapors were detected by a photoionization detector (PID). Confirmatory samples were collected when a sufficient area was cleared of solid waste and debris. Non-bias confirmatory samples were collected on a grid, using a random number generator to determine the sample location within the grid. Thirty-eight confirmatory samples were collected across the site. The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), TCL pesticides/PCBs, TCL dioxins/furans, total petroleum hydrocarbons (TPH), SW846 Method 8330 explosives, and Target Analyte List (TAL) inorganics. Approximate sample locations are provided on Figure 1. Refer to the Post-Removal Action for Report for Site 4 and Site 33 (TtNUS, 1999) for more information related to the confirmation sampling procedures.

In the southeastern corner of the site, excavation extended to approximately 30 feet below ground surface (bgs) due to the continued presence of elevated PID readings. Since no visible sign of contamination was present, two samples were collected from the bottom of the excavation and analyzed for VOCs and SVOCs. The samples, 0004-B1-22 and 0004-B2-16, were collected at 22 and 16 feet bgs, respectively. Following additional excavation, confirmatory samples 0004-SB-28, 0004-SB-29, and 0004-SB-31 were collected from the floor of the excavation in this area. Refer to the attached table for confirmation sampling data collected from Site 4 during the removal action.

The confirmation sampling data were compared to the preliminary remediation goals (PRGs) established for Site 4 during the removal action planning. PRGs were primarily United States Environmental Protection Agency (EPA) Region 3 Industrial Risk-Based Concentrations (RBCs)

(EPA, 1999). Industrial values (as opposed to residential) were used because future land use at Site 4 is unknown. Other standards were used for parameters for which a RBC does not exist, specifically lead and TPH. The PRG for lead was based on the Office of Solid Waste and Emergency Response's (OSWER) industrial standard for lead. The PRG for TPH was based on state of Maryland underground storage tank closure regulations. For inorganic analytes, the greater of the RBC concentration and the basewide background concentration was used as the PRG. Background concentrations for NSWC-White Oak were presented in the Background Investigation Report (TtNUS, 1998).

Following completion of excavation and confirmatory sampling, Site 4 was backfilled with clean soil and returned to grades similar to those that existed prior to the removal action. The area was also vegetated.

Following the removal action of 1999, an additional area of buried waste was detected west of the limits defined during the removal action. These wastes were excavated and disposed off site in November 2000. Five confirmation samples were collected and analyzed for the same parameters as the initial phase of the removal action, excluding TCL dioxins/furans and TPH. The analytical results are attached.

As part of the feasibility study associated with Operable Unit (OU) 1 at NSWC White Oak, subsurface soil samples have been collected below the limits of the Site 4 removal action in the southeastern corner of the site. Three subsurface soil samples were collected during the installation of groundwater monitoring well 04GW203 (at depths of 20, 23, and 30 feet bgs) and two samples were collected at location 04SB204 (at 23 and 31 feet bgs). The locations of these soil samples are identified on Figure 1. Encore soil samples were collected at these locations and analyzed for TCL VOCs and total organic carbon (TOC). At location 04GW203, the TCE concentrations decreased with depth from 3,200 to 120 to 2 ug/kg (at depths of 20, 23, and 30 feet bgs, respectively) and from 11,000 to 6 ug/kg at location 04SB204 (at 23 and 31 feet bgs, respectively). The VOC data collected at these locations are provided in the attached table.

The greatest concentrations of VOCs within groundwater at OU1 at NSWC White Oak are observed in the vicinity of Site 4; historically, the highest concentration of TCE was found in groundwater monitoring well 04GW102 (11,000 ug/L). This groundwater monitoring well was abandoned following the Site 4 removal action but has not been replaced with a groundwater monitoring well screened at the same interval (screened interval 37 to 47 feet bgs). Monitoring well 04GW203 was placed in the source area of Site 4, but this well is screened at a deeper depth.

PROPOSED INVESTIGATION

The NSWC White Oak BRAC Clean-Up Team (BCT) has determined that additional investigation is warranted to further characterize subsurface conditions at Site 4. At its February 19 meeting, the BCT agreed to collect additional subsurface soil samples adjacent to burial area 2 (the southeastern corner of Site 4) to determine if residual VOC contamination was present that may continue to serve as a source of the VOC contamination present in groundwater within OU1. In addition, the BCT agreed to replace groundwater monitoring well 04GW102 with a well of similar depth. These data will be used to further define the extent of subsurface soil contamination and will serve to support the remedial measures evaluated in the feasibility study for Site 4 soil and OU1 groundwater. The proposed soil sampling and groundwater monitoring well locations are identified on Figure 2.

Soils

At each soil sampling location, hollow-stem auger (HSA) drilling methods will be used to advance the boring to the groundwater table. Based upon recent sampling data, it is estimated that split-spoon samples will be collected at an elevation of 255 feet mean sea level and below. At each

sample location, a minimum of two subsurface soil samples will be collected. The soil cuttings and split-spoon samples will be monitored in the field with a PID to identify areas of VOC contamination. Sample collection will be biased toward those soils where VOCs are detected with the PID. Soil samples will be collected at depths where elevated PID readings are encountered as the boring advances to the groundwater table.

Soil samples will be collected with Encore samplers and handled in accordance with the Master Field Sampling Plan (FSP) for White Oak (B&R Environmental, 1998). Labeled pin flags will be placed at each sampling location to allow for surveying at a later date. All pertinent field data will be recorded on a Soil Sample Log Sheet and in the field logbook. Proper completion of sample log sheets is discussed in Section 2.0 of the Master FSP (B&R Environmental, 1998a). A sketch illustrating the approximate location will be included on the log sheet.

Samples will be analyzed for TCL VOCs, TPH, and total organic carbon (TOC). The Master Quality Assurance Project Plan (QAPP) (B&R Environmental, 1998) discusses details concerning sample containers, volume requirements, preservatives, allowable holding times, and analysis requested. Field quality control (QC) samples will be collected or generated during the sampling activities to assess the quality of the data resulting from field sampling and analytical programs. All samples will be submitted to a fixed-base laboratory for 28-day turn-around analysis.

Following sample collection, the borings will be backfilled with grout. The soil boring locations will be surveyed to identify their location and elevation.

All data will be provided to the BCT for evaluation upon receipt.

Groundwater

Monitoring well 04GW301 will be drilled and installed, using HSA drilling and split-spoon sampling methods, at the approximate former location of 04GW102. This will be constructed with a well screen placed at an elevation between 250 and 260 feet above mean sea level (msl). The soil cuttings and split-spoon samples will be monitored in the field with a PID to identify potential areas of VOC contamination; however, because the majority of the overburden at this location consists of clean fill, little if any soil contamination is expected to be present in the subsurface soil above the screened interval. A soil sample will be collected at the water-table elevation during monitoring well installation.

Temporary groundwater monitoring wells will also be installed north, east, and west of burial area 2 to further define the limits of groundwater contamination at the source area. The locations of the temporary wells will correspond to the locations of the subsurface soil sampling locations and are shown on Figure 2. The temporary wells will be abandoned in accordance with MDE requirements following sample collection.

Groundwater monitoring well installation and development will be performed in accordance with the Master FSP for White Oak (B&R Environmental, 1998). All pertinent field data will be recorded on a soil boring log, groundwater monitoring well construction sheet, and the field logbook. Proper completion of the soil boring log is discussed in Section 2.0 of the Master FSP (B&R Environmental, 1998a). A sketch illustrating the approximate location will be included on the log sheet.

The sampling of groundwater monitoring well 04GW301 and the temporary wells will be coordinated with the sampling of other groundwater monitoring wells within OU1 and Site 4. Additional information on those sampling efforts will be provided at that time.

Following construction, the monitoring well will be surveyed to identify its location and elevation.

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-01-1815 06/14/1999 UNVALIDATED	0004-SB-02-2012 06/14/1999 UNVALIDATED	0004-SB-03-1107 06/14/1999 UNVALIDATED	0004-SB-04-1015 06/16/1999 UNVALIDATED	0004-SB-05-0515 06/16/1999 UNVALIDATED	0004-SB-06-1712 06/16/1999 UNVALIDATED
VOLATILES (µg/kg)						
1,1,1-TRICHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
1,1,2-TRICHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHENE	11 U	10 U	11 U	11 U	11 U	12 U
1,2-DICHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
1,2-DICHLOROETHENE (TOTAL)	11 U	10 U	11 U	11 U	11 U	12 U
1,2-DICHLOROPROPANE	11 U	10 U	11 U	11 U	11 U	12 U
2-BUTANONE	11 U	10 U	11 U	11 U	11 U	12 U
2-HEXANONE	11 U	10 U	11 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	11 U	10 U	11 U	11 U	11 U	12 U
ACETONE	11 U	10 U	11 U	11 U	11 U	12 U
BENZENE	11 U	10 U	11 U	11 U	11 U	12 U
BROMODICHLOROMETHANE	11 U	10 U	11 U	11 U	11 U	12 U
BROMOFORM	11 U	10 U	11 U	11 U	11 U	12 U
BROMOMETHANE	1	10 U	1	11 U	11 U	12 U
CARBON DISULFIDE	11 U	10 U	11 U	11 U	11 U	12 U
CARBON TETRACHLORIDE	11 U	10 U	11 U	11 U	11 U	12 U
CHLOROBENZENE	11 U	10 U	11 U	11 U	11 U	12 U
CHLOROETHANE	11 U	10 U	11 U	11 U	11 U	12 U
CHLOROFORM	11 U	10 U	11 U	11 U	11 U	12 U
CHLOROMETHANE	11 U	10 U	11 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	11 U	10 U	11 U	11 U	11 U	12 U
DIBROMOCHLOROMETHANE	11 U	10 U	11 U	11 U	11 U	12 U
ETHYLBENZENE	11 U	10 U	11 U	11 U	11 U	12 U
METHYLENE CHLORIDE	11 U	10 U	2 J	11 U	11 U	12 U
STYRENE	11 U	10 U	11 U	11 U	11 U	12 U
TETRACHLOROETHENE	11 U	10 U	11 U	11 U	11 U	12 U
TOLUENE	11 U	10 U	11 U	11 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	11 U	10 U	11 U	11 U	11 U	12 U
TRICHLOROETHENE	11 U	10 U	11 U	11 U	11 U	12 U
VINYL CHLORIDE	11 U	10 U	11 U	11 U	11 U	12 U
XYLENES, TOTAL	11 U	10 U	11 U	11 U	11 U	12 U
SEMIVOLATILES (µg/kg)						
1,2,4-TRICHLOROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
1,2-DICHLOROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
1,3-DICHLOROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
1,4-DICHLOROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	360 U	340 U	360 U	370 U	380 U	380 U
2,4,5-TRICHLOROPHENOL	860 U	830 U	860 U	900 U	910 U	920 U
2,4,6-TRICHLOROPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
2,4-DICHLOROPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
2,4-DIMETHYLPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
2,4-DINITROPHENOL	860 U	830 U	860 U	900 U	910 U	920 U

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2,4-DINITROTOLUENE	360 U	340 U	360 U	370 U	380 U	380 U
2,6-DINITROTOLUENE	360 U	340 U	360 U	370 U	380 U	380 U
2-CHLORONAPHTHALENE	360 U	340 U	360 U	370 U	380 U	380 U
2-CHLOROPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
2-METHYLNAPHTHALENE	360 U	340 U	360 U	370 U	380 U	380 U
2-METHYLPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
2-NITROANILINE	860 U	830 U	860 U	900 U	910 U	920 U
2-NITROPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
3,3'-DICHLOROBENZIDINE	360 U	340 U	360 U	370 U	380 U	380 U
3-NITROANILINE	860 U	830 U	860 U	900 U	910 U	920 U
4,6-DINITRO-2-METHYLPHENOL	860 U	830 U	860 U	900 U	910 U	920 U
4-BROMOPHENYL PHENYL ETHER	360 U	340 U	360 U	370 U	380 U	380 U
4-CHLORO-3-METHYLPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
4-CHLOROANILINE	360 U	340 U	360 U	370 U	380 U	380 U
4-CHLOROPHENYL PHENYL ETHER	360 U	340 U	360 U	370 U	380 U	380 U
4-METHYLPHENOL	360 U	340 U	360 U	370 U	380 U	380 U
4-NITROANILINE	860 U	830 U	860 U	900 U	910 U	920 U
4-NITROPHENOL	860 U	830 U	860 U	900 U	910 U	920 U
ACENAPHTHENE	360 U	340 U	360 U	370 U	380 U	380 U
ACENAPHTHYLENE	360 U	340 U	360 U	370 U	380 U	380 U
ANTHRACENE	360 U	340 U	360 U	370 U	380 U	380 U
BENZO(A)ANTHRACENE	360 U	340 U	360 U	370 U	380 U	380 U
BENZO(A)PYRENE	360 U	340 U	360 U	370 U	380 U	380 U
BENZO(B)FLUORANTHENE	360 U	340 U	360 U	370 U	380 U	380 U
BENZO(G,H,I)PERYLENE	360 U	340 U	360 U	370 U	380 U	380 U
BENZO(K)FLUORANTHENE	360 U	340 U	360 U	370 U	380 U	380 U
BIS(2-CHLOROETHOXY)METHANE	360 U	340 U	360 U	370 U	380 U	380 U
BIS(2-CHLOROETHYL)ETHER	360 U	340 U	360 U	370 U	380 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
BUTYLBENZYL PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
CARBAZOLE	360 U	340 U	360 U	370 U	380 U	380 U
CHRYSENE	360 U	340 U	360 U	370 U	380 U	380 U
DI-N-BUTYL PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
DI-N-OCTYL PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
DIBENZO(A,H)ANTHRACENE	360 U	340 U	360 U	370 U	380 U	380 U
DIBENZOFURAN	360 U	340 U	360 U	370 U	380 U	380 U
DIETHYL PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
DIMETHYL PHTHALATE	360 U	340 U	360 U	370 U	380 U	380 U
FLUORANTHENE	360 U	340 U	45 J	370 U	380 U	380 U
FLUORENE	360 U	340 U	360 U	370 U	380 U	380 U
HEXACHLOROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
HEXACHLOROBUTADIENE	360 U	340 U	360 U	370 U	380 U	380 U
HEXACHLOROCYCLOPENTADIENE	360 U	340 U	360 U	370 U	380 U	380 U
HEXACHLOROETHANE	360 U	340 U	360 U	370 U	380 U	380 U
INDENO(1,2,3-CD)PYRENE	360 U	340 U	360 U	370 U	380 U	380 U

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ISOPHORONE	360 U	340 U	360 U	370 U	380 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	360 U	340 U	360 U	370 U	380 U	380 U
N-NITROSODIPHENYLAMINE	360 U	340 U	360 U	370 U	380 U	380 U
NAPHTHALENE	360 U	340 U	360 U	370 U	380 U	380 U
NITROBENZENE	360 U	340 U	360 U	370 U	380 U	380 U
PENTACHLOROPHENOL	860 U	830 U	860 U	900 U	910 U	920 U
PHENANTHRENE	360 U	340 U	66 J	370 U	380 U	380 U
PHENOL	360 U	340 U	360 U	370 U	380 U	380 U
PYRENE	360 U	340 U	85 J	370 U	380 U	380 U
PESTICIDES/PCBs (µg/kg)						
4,4'-DDD	3.6 U	3.4 U	3.6 U	3.7 U	3.8 U	3.8 U
4,4'-DDE	3.6 U	3.4 U	2 J	3.7 U	3.8 U	3.8 U
4,4'-DDT	3.6 U	3.4 U	3.6 U	3.7 U	3.8 U	3.8 U
ALDRIN	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
ALPHA-BHC	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
ALPHA-CHLORDANE	1.8 U	1.5 J	1.3 J	1.9 U	1.4 J	1.1 J
AROCLOR-1016	36 U	34 U	36 U	37 U	38 U	38 U
AROCLOR-1221	73 U	70 U	72 U	76 U	76 U	77 U
AROCLOR-1232	36 U	34 U	36 U	37 U	38 U	38 U
AROCLOR-1242	36 U	34 U	36 U	37 U	38 U	38 U
AROCLOR-1248	36 U	34 U	36 U	37 U	38 U	38 U
AROCLOR-1254	36 U	34 U	36 U	37 U	38 U	38 U
AROCLOR-1260	30 J	330	92	37 U	38 U	38 U
BETA-BHC	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
DELTA-BHC	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
DIELDRIN	3.6 U	2.7 J	3.6 U	3.7 U	3.8 U	3.8 U
ENDOSULFAN I	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
ENDOSULFAN II	3.6 U	10	2.9 J	3.7 U	3.8 U	3.8 U
ENDOSULFAN SULFATE	3.6 U	3.4 U	3.6 U	3.7 U	3.8 U	3.8 U
ENDRIN	3.6 U	4.4	3.6	3.7 U	3.8 U	3.8 U
ENDRIN ALDEHYDE	3.6 U	15	2.9 J	3.7 U	3.8 U	3.8 U
ENDRIN KETONE	3.6 U	3.4 U	3.6 U	3.7 U	3.8 U	3.8 U
GAMMA-BHC (LINDANE)	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
GAMMA-CHLORDANE	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
HEPTACHLOR	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
HEPTACHLOR EPOXIDE	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U
METHOXYCHLOR	18 U	18 U	18 U	19 U	19 U	20 U
TOXAPHENE	180 U	180 U	180 U	190 U	190 U	200 U
INORGANICS (mg/kg)						
ALUMINUM	4870	2840	11300	1280	8650	10400
ANTIMONY	0.45 U	0.60	0.47	1.1	1.5	0.87
ARSENIC	1.9	0.97	3.4	0.50 U	3.0	4.0
BARIUM	41.1	11.1	27.2	16.9	90.6	35.4
BERYLLIUM	0.06 U	0.06 U	0.06 U	0.07 U	0.07 U	0.07 U
CADMIUM	0.22	0.04 U	0.04 U	0.05 U	0.77	0.05 U

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SAMPLE DATE:	06/14/1999	06/14/1999	06/14/1999	06/16/1999	06/16/1999	06/16/1999
VALIDATION STATUS:	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED
CALCIUM	574	160	385	61.7	463	190
CHROMIUM	8.4	3.9	14.9	1.8	13.2	15.1
COBALT	1.9	0.76	2.1	0.16 U	4.7	2.8
COPPER	7.1	8.3	16.7	4.5	197	8.8
CYANIDE	0.16	0.12	0.17	0.07	2.3 U	0.33
IRON	6560	4030	13400	2310	17000	14900
LEAD	14.8	5.1	12.1	3.6	75.1	7.7
MAGNESIUM	306	182	466	49.1	353	603
MANGANESE	71.8	27.6	52.8	7.2	148	49.9
MERCURY	0.07	0.05 U	0.09	0.06 U	0.18	0.06 U
NICKEL	4.4	1.7	4.5	0.45	13.3	4.8
POTASSIUM	239	96.5	304	74.0	234	291
SELENIUM	0.52 U	0.50 U	2.3	0.54 U	1.0	1.1
SILVER	0.19 U	0.19 U	0.19 U	0.20 U	9.0	0.21 U
SODIUM	39.7	22.2 U	26.4	24.1 U	65.0	51.8
THALLIUM	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.4 U
VANADIUM	13.7	9.8	31.5	3.6	19.7	29.8
ZINC	73.8	10.5	18.0	24.2	495	24.6
EXPLOSIVES (mg/kg)						
1,3,5-TRINITROBENZENE	0.25 U	0.061 J	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.02 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.081 J
2,4-DINITROTOLUENE	0.096 J	0.17 J	0.25 U	0.25 U	0.041 J	0.061 J
2,6-DINITROTOLUENE	0.25 U	0.09 J	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.25 U	0.036 J	0.25 U	0.059 J	0.25 U	0.25 U
2-NITROTOLUENE	0.12 J	0.13 J	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.15 J	0.25 U	0.14 J	0.093 J	0.18 J
4-AMINO-2,6-DINITROTOLUENE	0.11 J	0.11 J	0.25 U	0.25 U	0.14 J	0.25 U
4-NITROTOLUENE	0.11 J	0.25 U	0.25 U	0.21 J	0.25 U	0.25 U
HMX	0.5 U	0.084 J	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.025 J	0.026 J
TETRYL	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)						
TOTAL PETROLEUM HYDROCARBONS	19	8.7 B	19	12	65	17
DIOXINS (µg/kg)						
1,2,3,4,6,7,8,9-OCDD	4.6 J	7	3.3 J	0.22 J	12.9	6.1
1,2,3,4,6,7,8,9-OCDF	0.09 U	0.07 U	0.08 U	0.1 U	0.1 U	0.08 U
1,2,3,4,6,7,8-HPCDD	0.06 U	0.05 U	0.05 U	0.06 U	0.06 U	0.05 U
1,2,3,4,6,7,8-HPCDF	0.04 U	0.03 U	0.04 U	0.05 U	0.04 U	0.04 U
1,2,3,4,7,8,9-HPCDF	0.04 U	0.03 U	0.04 U	0.05 U	0.04 U	0.04 U
1,2,3,4,7,8-HXCDD	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	0.04 U
1,2,3,4,7,8-HXCDF	0.02 U	0.02 U	0.02 U	0.03 U	0.03 U	0.03 U
1,2,3,6,7,8-HXCDD	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	0.04 U
1,2,3,6,7,8-HXCDF	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.03 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-01-1815 06/14/1999 UNVALIDATED	0004-SB-02-2012 06/14/1999 UNVALIDATED	0004-SB-03-1107 06/14/1999 UNVALIDATED	0004-SB-04-1015 06/16/1999 UNVALIDATED	0004-SB-05-0515 06/16/1999 UNVALIDATED	0004-SB-06-1712 06/16/1999 UNVALIDATED
1,2,3,7,8,9-HXCDD	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	0.04 U
1,2,3,7,8,9-HXCDF	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.03 U
1,2,3,7,8-PECDD	0.06 U	0.06 U	0.06 U	0.08 U	0.07 U	0.06 U
1,2,3,7,8-PECDF	0.04 U	0.04 U	0.04 U	0.06 U	0.05 U	0.04 U
2,3,4,6,7,8-HXCDF	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.03 U
2,3,4,7,8-PECDF	0.04 U	0.04 U	0.04 U	0.06 U	0.05 U	0.04 U
2,3,7,8-TCDD	0.04 U	0.04 U	0.03 U	0.05 U	0.04 U	0.04 U
2,3,7,8-TCDF	0.03 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
TOTAL HPCDD	0.06 U	0.05 U	0.05 U	0.06 U	0.06 U	0.05 U
TOTAL HPCDF	0.04 U	0.03 U	0.04 U	0.05 U	0.04 U	0.04 U
TOTAL HXCDD	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	0.04 U
TOTAL HXCDF	0.02 U	0.02 U	0.02 U	0.03 U	0.03 U	0.03 U
TOTAL PECDD	0.06 U	0.06 U	0.06 U	0.08 U	0.07 U	0.06 U
TOTAL PECDF	0.2	0.04 U	0.04 U	0.06 U	0.05 U	0.04 U
TOTAL TCDD	2.3	2.3	2.4	2.2	2.7	2.4
TOTAL TCDF	0.1	0.09	0.03 U	0.04 U	0.04 U	0.03 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-07-0302 06/16/1999 UNVALIDATED	0004-SB-08-1207 06/16/1999 UNVALIDATED	0004-SB-09-2420 06/30/1999 UNVALIDATED	0004-SB-10-0116 06/30/1999 UNVALIDATED	0004-SB-11-1412 06/30/1999 UNVALIDATED	0004-SB-12-0202 06/30/1999 UNVALIDATED
VOLATILES (µg/kg)						
1,1,1-TRICHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
1,1,2-TRICHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
1,1-DICHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
1,1-DICHLOROETHENE	11 U	11 U	11 U	11 U	10 U	10 U
1,2-DICHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	11 U	11 U	11 U	11 U	10 U	10 U
1,2-DICHLOROPROPANE	11 U	11 U	11 U	11 U	10 U	10 U
2-BUTANONE	11 U	11 U	11 U	11 U	10 U	10 U
2-HEXANONE	11 U	11 U	11 U	11 U	10 U	10 U
4-METHYL-2-PENTANONE	11 U	11 U	11 U	11 U	10 U	10 U
ACETONE	11 U	11 U	11 U	11 U	10 U	10 U
BENZENE	11 U	11 U	11 U	11 U	10 U	10 U
BROMODICHLOROMETHANE	11 U	11 U	11 U	11 U	10 U	10 U
BROMOFORM	11 U	11 U	11 U	11 U	10 U	10 U
BROMOMETHANE	11 U	11 U	2	11 U	10 U	10 U
CARBON DISULFIDE	11 U	11 U	11 U	11 U	10 U	10 U
CARBON TETRACHLORIDE	11 U	11 U	11 U	11 U	10 U	10 U
CHLOROBENZENE	11 U	11 U	11 U	11 U	10 U	10 U
CHLOROETHANE	11 U	11 U	11 U	11 U	10 U	10 U
CHLOROFORM	11 U	11 U	11 U	11 U	10 U	10 U
CHLOROMETHANE	11 U	11 U	11 U	11 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	11 U	11 U	11 U	11 U	10 U	10 U
DIBROMOCHLOROMETHANE	11 U	11 U	11 U	11 U	10 U	10 U
ETHYLBENZENE	11 U	11 U	11 U	11 U	10 U	10 U
METHYLENE CHLORIDE	11 U	11 U	11 U	11 U	10 U	10 U
STYRENE	11 U	11 U	11 U	11 U	10 U	10 U
TETRACHLOROETHENE	11 U	1 J	11 U	11 U	10 U	10 U
TOLUENE	11 U	11 U	11 U	11 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	11 U	11 U	11 U	11 U	10 U	10 U
TRICHLOROETHENE	11 U	11 U	11 U	11 U	10 U	10 U
VINYL CHLORIDE	11 U	11 U	11 U	11 U	10 U	10 U
XYLENES, TOTAL	11 U	11 U	11 U	11 U	10 U	10 U
SEMIVOLATILES (µg/kg)						
1,2,4-TRICHLOROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
1,2-DICHLOROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
1,3-DICHLOROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
1,4-DICHLOROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	370 U	380 U	370 U	360 U	350 U	340 U
2,4,5-TRICHLOROPHENOL	900 U	910 U	900 U	880 U	840 U	840 U
2,4,6-TRICHLOROPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
2,4-DICHLOROPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
2,4-DIMETHYLPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
2,4-DINITROPHENOL	900 U	910 U	900 U	880 U	840 U	840 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-07-0302 06/16/1999 UNVALIDATED	0004-SB-08-1207 06/16/1999 UNVALIDATED	0004-SB-09-2420 06/30/1999 UNVALIDATED	0004-SB-10-0116 06/30/1999 UNVALIDATED	0004-SB-11-1412 06/30/1999 UNVALIDATED	0004-SB-12-0202 06/30/1999 UNVALIDATED
2,4-DINITROTOLUENE	370 U	380 U	370 U	360 U	350 U	340 U
2,6-DINITROTOLUENE	370 U	380 U	370 U	360 U	350 U	340 U
2-CHLORONAPHTHALENE	370 U	380 U	370 U	360 U	350 U	340 U
2-CHLOROPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
2-METHYLNAPHTHALENE	370 U	380 U	370 U	360 U	350 U	340 U
2-METHYLPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
2-NITROANILINE	900 U	910 U	900 U	880 U	840 U	840 U
2-NITROPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
3,3'-DICHLOROBENZIDINE	370 U	380 U	370 U	360 U	350 U	340 U
3-NITROANILINE	900 U	910 U	900 U	880 U	840 U	840 U
4,6-DINITRO-2-METHYLPHENOL	900 U	910 U	900 U	880 U	840 U	840 U
4-BROMOPHENYL PHENYL ETHER	370 U	380 U	370 U	360 U	350 U	340 U
4-CHLORO-3-METHYLPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
4-CHLOROANILINE	370 U	380 U	370 U	360 U	350 U	340 U
4-CHLOROPHENYL PHENYL ETHER	370 U	380 U	370 U	360 U	350 U	340 U
4-METHYLPHENOL	370 U	380 U	370 U	360 U	350 U	340 U
4-NITROANILINE	900 U	910 U	900 U	880 U	840 U	840 U
4-NITROPHENOL	900 U	910 U	900 U	880 U	840 U	840 U
ACENAPHTHENE	370 U	380 U	370 U	360 U	350 U	62 J
ACENAPHTHYLENE	370 U	57 J	370 U	360 U	40 J	340 U
ANTHRACENE	370 U	380 U	370 U	360 U	350 U	140 J
BENZO(A)ANTHRACENE	370 U	270 J	370 U	360 U	210 J	440
BENZO(A)PYRENE	370 U	390	370 U	360 U	370	370
BENZO(B)FLUORANTHENE	370 U	450	370 U	360 U	340 J	560
BENZO(G,H,I)PERYLENE	370 U	290 J	370 U	360 U	270 J	37 J
BENZO(K)FLUORANTHENE	370 U	66 J	370 U	360 U	110 J	180 J
BIS(2-CHLOROETHOXY)METHANE	370 U	380 U	370 U	360 U	350 U	340 U
BIS(2-CHLOROETHYL)ETHER	370 U	380 U	370 U	360 U	350 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	370 U	380 U	43	48	47	140
BUTYLBENZYL PHTHALATE	370 U	380 U	370 U	360 U	350 U	340 U
CARBAZOLE	370 U	380 U	370 U	360 U	350 U	50 J
CHRYSENE	370 U	300 J	370 U	360 U	250 J	380
DI-N-BUTYL PHTHALATE	4800	380 U	69	42	39	52
DI-N-OCTYL PHTHALATE	370 U	380 U	370 U	360 U	350 U	340 U
DIBENZO(A,H)ANTHRACENE	370 U	45 J	370 U	360 U	62 J	80 J
DIBENZOFURAN	370 U	380 U	370 U	360 U	350 U	48 J
DIETHYL PHTHALATE	370 U	380 U	370 U	360 U	350 U	340 U
DIMETHYL PHTHALATE	370 U	380 U	370 U	360 U	350 U	340 U
FLUORANTHENE	370 U	550	370 U	360 U	98 J	900
FLUORENE	370 U	380 U	370 U	360 U	350 U	70 J
HEXACHLOROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
HEXACHLOROBUTADIENE	370 U	380 U	370 U	360 U	350 U	340 U
HEXACHLOROCYCLOPENTADIENE	370 U	380 U	370 U	360 U	350 U	340 U
HEXACHLOROETHANE	370 U	380 U	370 U	360 U	350 U	340 U
INDENO(1,2,3-CD)PYRENE	370 U	180 J	370 U	360 U	220 J	270 J

SITE 4 - THE CHEMICAL BURIAL AREA
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THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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ISOPHORONE	370 U	380 U	370 U	360 U	350 U	340 U
N-NITROSO-DI-N-PROPYLAMINE	370 U	380 U	370 U	360 U	350 U	340 U
N-NITROSODIPHENYLAMINE	370 U	380 U	370 U	360 U	350 U	340 U
NAPHTHALENE	370 U	380 U	370 U	360 U	350 U	340 U
NITROBENZENE	370 U	380 U	370 U	360 U	350 U	340 U
PENTACHLOROPHENOL	900 U	910 U	900 U	880 U	840 U	840 U
PHENANTHRENE	370 U	260 J	370 U	360 U	41 J	710
PHENOL	370 U	380 U	370 U	360 U	350 U	340 U
PYRENE	370 U	430	370 U	360 U	190 J	720
PESTICIDES/PCBs (µg/kg)						
4,4'-DDD	3.7 U	3.8 U	6.2	3.6 U	4.6	2.3 J
4,4'-DDE	3.7 U	3.8 U	3.7 U	3.6 U	1.9 J	13
4,4'-DDT	3.7 U	3.2 J	3.7 U	3.6 U	2.1 J	24
ALDRIN	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
ALPHA-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
ALPHA-CHLORDANE	1.9 U	1.9	1.6 J	1.9 U	2.2	1.8 U
AROCLOR-1016	37 U	38 U	37 U	36 U	35 U	35 U
AROCLOR-1221	76 U	77 U	75 U	73 U	71 U	70 U
AROCLOR-1232	37 U	38 U	37 U	36 U	35 U	35 U
AROCLOR-1242	37 U	38 U	37 U	36 U	35 U	35 U
AROCLOR-1248	37 U	38 U	37 U	36 U	35 U	35 U
AROCLOR-1254	37 U	38 U	35 J	36 U	100	35 U
AROCLOR-1260	42	54	83	36 U	200	82
BETA-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
DELTA-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
DIELDRIN	3.7 U	3.8 U	3.7 U	3.6 U	1.8 J	3.5 U
ENDOSULFAN I	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
ENDOSULFAN II	3.7 U	3.8 U	3.7 U	3.6 U	3.5 U	3.5 U
ENDOSULFAN SULFATE	3.7 U	3.8 U	3.7 U	3.6 U	3.5 U	3.5 U
ENDRIN	3.7 U	3.8 U	3.7 U	3.6 U	4.1	3.5 U
ENDRIN ALDEHYDE	3.7 U	3.8 U	2.9 J	3.6 U	6.5	3.4 J
ENDRIN KETONE	3.7 U	3.8 U	3.7 U	3.6 U	3.5 U	3.5 U
GAMMA-BHC (LINDANE)	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
GAMMA-CHLORDANE	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
HEPTACHLOR	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
METHOXYCHLOR	19 U	19 U	28	19 U	18 U	18 U
TOXAPHENE	190 U	190 U	190 U	190 U	180 U	180 U
INORGANICS (mg/kg)						
ALUMINUM	5610	12400	2490	2980	3460	6750
ANTIMONY	0.50	1.4	0.47 U	0.53	0.55	2.1
ARSENIC	2.3	3.0	0.80	1.4	1.5	3.4
BARIUM	26.9	65.4	7.0	14.2	15.2	187
BERYLLIUM	0.07 U	0.22	0.07 U	0.07 U	0.06 U	0.06 U
CADMIUM	0.15	0.05 U	0.04 U	0.04 U	0.04 U	1.3

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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CALCIUM	439	2100	112	477	847	2480
CHROMIUM	11.5	16.0	4.5	154	5.1	40.7
COBALT	1.8	4.7	0.67	0.40	1.4	7.6
COPPER	40.2	29.0	12.9	7.0	10.0	816
CYANIDE	0.12	0.13	0.10	2.2 U	0.10	0.16
IRON	9790	14800	2770	4210	4560	12000
LEAD	27.3	17.2	5.8	3.4	8.5	403
MAGNESIUM	411	760	88.0	68.8	174	462
MANGANESE	69.2	74.2	13.0	8.6	36.8	553
MERCURY	0.06	0.11	0.07	0.05 U	0.05 U	0.28
NICKEL	5.6	9.0	1.6	1.3	2.1	30.7
POTASSIUM	193	476	63.8	116	96.9	263
SELENIUM	0.63	1.8	0.54 U	0.53 U	0.51 U	0.56
SILVER	0.30	0.21 U	0.35	0.20 U	0.19 U	25.2
SODIUM	36.9	60.6	24.0 U	24.3	22.6 U	77.7
THALLIUM	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U
VANADIUM	20.2	28.2	6.6	9.0	9.4	16.9
ZINC	76.7	73.8	18.5	8.0	13.4	594
EXPLOSIVES (mg/kg)						
1,3,5-TRINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.027 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-DINITROTOLUENE	0.059 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.078 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-NITROTOLUENE	0.092 J	0.076 J	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.097 J	0.25 U	0.25 U	0.25 U	0.25 U
4-AMINO-2,6-DINITROTOLUENE	0.058 J	0.057 J	0.25 U	0.25 U	0.25 U	0.25 U
4-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)						
TOTAL PETROLEUM HYDROCARBONS	290	130	16	16	36	73
DIOXINS (µg/kg)						
1,2,3,4,6,7,8,9-OCDD	2.1 J	5.6 J	0.7 U	0.6 U	2.9 J	4.5 J
1,2,3,4,6,7,8,9-OCDF	0.1 U	0.07 U	0.6 U	0.6 U	0.5 U	0.6 U
1,2,3,4,6,7,8-HPCDD	0.06 U	0.05 U	0.5 U	0.3 U	0.4 U	0.4 U
1,2,3,4,6,7,8-HPCDF	0.04 U	0.03 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8,9-HPCDF	0.04 U	0.03 U	0.3 U	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8-HXCDD	0.04 U	0.03 U	0.3 U	0.2 U	0.3 U	0.3 U
1,2,3,4,7,8-HXCDF	0.03 U	0.02 U	0.2 U	0.1 U	0.1 U	0.2 U
1,2,3,6,7,8-HXCDD	0.05 U	0.04 U	0.3 U	0.2 U	0.3 U	0.3 U
1,2,3,6,7,8-HXCDF	0.03 U	0.02 U	0.2 U	0.2 U	0.2 U	0.2 U

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1,2,3,7,8,9-HXCDD	0.04 U	0.03 U	0.3 U	0.2 U	0.3 U	0.3 U
1,2,3,7,8,9-HXCDF	0.03 U	0.02 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3,7,8-PECDD	0.06 U	0.05 U	0.5 U	0.4 U	0.5 U	0.5 U
1,2,3,7,8-PECDF	0.04 U	0.03 U	0.4 U	0.3 U	0.3 U	0.3 U
2,3,4,6,7,8-HXCDF	0.03 U	0.02 U	0.2 U	0.2 U	0.2 U	0.2 U
2,3,4,7,8-PECDF	0.04 U	0.03 U	0.4 U	0.3 U	0.3 U	0.3 U
2,3,7,8-TCDD	0.04 U	0.03 U	0.3 U	0.3 U	0.3 U	0.3 U
2,3,7,8-TCDF	0.03 U	0.02 U	0.3 U	0.3 U	0.2 U	0.3 U
TOTAL HPCDD	0.06 U	0.05 U	0.5 U	0.3 U	0.4 U	0.4 U
TOTAL HPCDF	0.04 U	0.03 U	0.2 U	0.2 U	0.2 U	0.2 U
TOTAL HXCDD	0.04 U	0.03 U	0.3 U	0.2 U	0.3 U	0.3 U
TOTAL HXCDF	0.03 U	0.02 U	0.2 U	0.1 U	0.1 U	0.2 U
TOTAL PECDD	0.06 U	0.05 U	0.5 U	0.4 U	0.5 U	0.5 U
TOTAL PECDF	0.04 U	0.03 U	0.4 U	0.3 U	0.3 U	0.3 U
TOTAL TCDD	2.3	2.6	0.3 U	2.4	2.2	0.3 U
TOTAL TCDF	0.03 U	0.02 U	0.3 U	0.3 U	0.2 U	0.3 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-13-2420 07/08/1999 UNVALIDATED	0004-SB-14-0820 07/08/1999 UNVALIDATED	0004-SB-15-0302 07/08/1999 UNVALIDATED	0004-SB-16-0202 07/08/1999 UNVALIDATED	0004-SB-17-1715 07/08/1999 UNVALIDATED	0004-SB-18-2315 07/26/1999 UNVALIDATED
VOLATILES (µg/kg)						
1,1,1-TRICHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	11 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	11 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	11 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	11 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	11 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	11 U	10 U	10 U	10 U	10 U
ACETONE	10 U	11 U	10 U	10 U	10 U	10 U
BENZENE	10 U	11 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	11 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	11 U	10 U	10 U	10 U	10 U
BROMOMETHANE	10 U	11 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	11 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	11 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	0.7 J	10 U	10 U	10 U	10 U
CHLOROETHANE	10 U	11 U	10 U	10 U	10 U	10 U
CHLOROFORM	10 U	11 U	10 U	10 U	10 U	10 U
CHLOROMETHANE	10 U	11 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	11 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	11 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	11 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	10 U	11 U	10 U	10 U	10 U	10 U
STYRENE	10 U	11 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	10 U	11 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	11 U	10 U	10 U	10 U	2 J
TRANS-1,3-DICHLOROPROPENE	10 U	11 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	11 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	11 U	10 U	10 U	10 U	10 U
XYLENES, TOTAL	10 U	11 U	10 U	10 U	10 U	10 U
SEMIVOLATILES (µg/kg)						
1,2,4-TRICHLOROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
1,2-DICHLOROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
1,3-DICHLOROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
1,4-DICHLOROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	340 U	380 U	340 U	340 U	340 U	340 U
2,4,5-TRICHLOROPHENOL	820 U	910 U	820 U	830 U	830 U	810 U
2,4,6-TRICHLOROPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
2,4-DICHLOROPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
2,4-DIMETHYLPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
2,4-DINITROPHENOL	820 U	910 U	820 U	830 U	830 U	810 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-13-2420 07/08/1999 UNVALIDATED	0004-SB-14-0820 07/08/1999 UNVALIDATED	0004-SB-15-0302 07/08/1999 UNVALIDATED	0004-SB-16-0202 07/08/1999 UNVALIDATED	0004-SB-17-1715 07/08/1999 UNVALIDATED	0004-SB-18-2315 07/26/1999 UNVALIDATED
2,4-DINITROTOLUENE	340 U	380 U	340 U	340 U	340 U	340 U
2,6-DINITROTOLUENE	340 U	380 U	340 U	340 U	340 U	340 U
2-CHLORONAPHTHALENE	340 U	380 U	340 U	340 U	340 U	340 U
2-CHLOROPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
2-METHYLNAPHTHALENE	340 U	380 U	340 U	340 U	340 U	340 U
2-METHYLPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
2-NITROANILINE	820 U	910 U	820 U	830 U	830 U	810 U
2-NITROPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
3,3'-DICHLOROBENZIDINE	340 U	380 U	340 U	340 U	340 U	340 U
3-NITROANILINE	820 U	910 U	820 U	830 U	830 U	810 U
4,6-DINITRO-2-METHYLPHENOL	820 U	910 U	820 U	830 U	830 U	810 U
4-BROMOPHENYL PHENYL ETHER	340 U	380 U	340 U	340 U	340 U	340 U
4-CHLORO-3-METHYLPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
4-CHLOROANILINE	340 U	380 U	340 U	340 U	340 U	340 U
4-CHLOROPHENYL PHENYL ETHER	340 U	380 U	340 U	340 U	340 U	340 U
4-METHYLPHENOL	340 U	380 U	340 U	340 U	340 U	340 U
4-NITROANILINE	820 U	910 U	820 U	830 U	830 U	810 U
4-NITROPHENOL	820 U	910 U	820 U	830 U	830 U	810 U
ACENAPHTHENE	340 U	380 U	340 U	340 U	110 J	340 U
ACENAPHTHYLENE	340 U	380 U	340 U	340 U	340 U	340 U
ANTHRACENE	340 U	380 U	340 U	340 U	180 J	340 U
BENZO(A)ANTHRACENE	340 U	380 U	340 U	340 U	460	340 U
BENZO(A)PYRENE	340 U	380 U	340 U	340 U	490	340 U
BENZO(B)FLUORANTHENE	340 U	380 U	340 U	340 U	600	340 U
BENZO(G,H,I)PERYLENE	340 U	380 U	340 U	340 U	140 J	340 U
BENZO(K)FLUORANTHENE	340 U	380 U	340 U	340 U	210 J	340 U
BIS(2-CHLOROETHOXY)METHANE	340 U	380 U	340 U	340 U	340 U	340 U
BIS(2-CHLOROETHYL)ETHER	340 U	380 U	340 U	340 U	340 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	60 J	380 U	34 J	39 J	340 U	330
BUTYLBENZYL PHTHALATE	340 U	380 U	340 U	340 U	340 U	340 U
CARBAZOLE	340 U	380 U	340 U	340 U	140 J	340 U
CHRYSENE	340 U	380 U	340 U	340 U	530	340 U
DI-N-BUTYL PHTHALATE	340 U	380 U	340 U	340 U	340 U	340 U
DI-N-OCTYL PHTHALATE	340 U	380 U	340 U	340 U	340 U	340 U
DIBENZO(A,H)ANTHRACENE	340 U	380 U	340 U	340 U	65 J	340 U
DIBENZOFURAN	340 U	380 U	340 U	340 U	47 J	340 U
DIETHYL PHTHALATE	340 U	380 U	340 U	340 U	340 U	340 U
DIMETHYL PHTHALATE	340 U	380 U	340 U	340 U	340 U	340 U
FLUORANTHENE	340 U	380 U	340 U	340 U	1600	340 U
FLUORENE	340 U	380 U	340 U	340 U	93 J	340 U
HEXACHLOROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
HEXACHLOROBUTADIENE	340 U	380 U	340 U	340 U	340 U	340 U
HEXACHLOROCYCLOPENTADIENE	340 U	380 U	340 U	340 U	340 U	340 U
HEXACHLOROETHANE	340 U	380 U	340 U	340 U	340 U	340 U
INDENO(1,2,3-CD)PYRENE	340 U	380 U	340 U	340 U	270 J	340 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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ISOPHORONE	340 U	380 U	340 U	340 U	340 U	340 U
N-NITROSO-DI-N-PROPYLAMINE	340 U	380 U	340 U	340 U	340 U	340 U
N-NITROSODIPHENYLAMINE	340 U	380 U	340 U	340 U	340 U	340 U
NAPHTHALENE	340 U	380 U	340 U	340 U	340 U	340 U
NITROBENZENE	340 U	380 U	340 U	340 U	340 U	340 U
PENTACHLOROPHENOL	820 U	910 U	820 U	830 U	830 U	810 U
PHENANTHRENE	36 J	380 U	340 U	340 U	1200	340 U
PHENOL	340 U	380 U	340 U	340 U	340 U	340 U
PYRENE	340 U	380 U	39 J	340 U	1100	340 U
PESTICIDES/PCBs (µg/kg)						
4,4'-DDD	17 U	3.8 U	3.4 U	3.4 U	3.4 U	3.4 U
4,4'-DDE	1.6	0.49	0.18	0.71 J	0.36	0.037
4,4'-DDT	17 U	14	2.7	3.4 U	8.1	3.4 U
ALDRIN	8.5 U	1.9 U	1.7 U	1.7 U	0.29 J	1.7 U
ALPHA-BHC	8.5 U	1.9 U	1.7 U	0.049	1.7 U	1.7 U
ALPHA-CHLORDANE	1.4	1.9 U	0.14	0.60	1.7 U	0.060
AROCLOR-1016	170 U	38 U	34 U	34 U	34 U	34 U
AROCLOR-1221	340 U	76 U	68 U	69 U	68 U	68 U
AROCLOR-1232	170 U	38 U	34 U	34 U	34 U	34 U
AROCLOR-1242	170 U	38 U	34 U	34 U	34 U	34 U
AROCLOR-1248	170 U	38 U	34 U	34 U	34 U	34 U
AROCLOR-1254	170 U	38 U	34 U	34 U	34 U	34 U
AROCLOR-1260	1300	95	16	35	90	4.9
BETA-BHC	8.5 U	1.9 U	1.7 U	1.7 U	1.7 U	0.16
DELTA-BHC	8.5 U	1.9 U	1.7 U	1.7 U	0.042	0.035
DIELDRIN	13	0.91	0.25	0.42	0.83	0.10
ENDOSULFAN I	0.51	0.14	0.16	1.7 U	0.28	0.12
ENDOSULFAN II	17 U	3.8 U	3.4 U	3.4 U	3.4 U	3.4 U
ENDOSULFAN SULFATE	17	1.2	3.4 U	2.0	2.0	3.4 U
ENDRIN	17 U	3.8 U	3.4 U	3.4 U	3.4 U	3.4 U
ENDRIN ALDEHYDE	4.8	3.8 U	3.4 U	3.4 U	3.4 U	3.4 U
ENDRIN KETONE	17 U	3.8 U	3.4 U	3.4 U	3.4 U	3.4 U
GAMMA-BHC (LINDANE)	8.5 U	1.9 U	1.7 U	1.7 U	1.7 U	0.053
GAMMA-CHLORDANE	4.8	0.36	0.56	0.38	1.1	0.079
HEPTACHLOR	0.33	0.37	0.53	0.40	1.7 U	0.41
HEPTACHLOR EPOXIDE	0.12	1.9 U	1.7 U	1.7 U	0.033	1.7 U
METHOXYCHLOR	85 U	19 U	17 U	17 U	17 U	17 U
TOXAPHENE	850 U	190 U	170 U	170 U	170 U	170 U
INORGANICS (mg/kg)						
ALUMINUM	3890	3290	2910	7870	8460	2940
ANTIMONY	0.43 U	0.48 U	0.43 U	0.43 U	0.43 U	0.43 U
ARSENIC	1.5	1.9	1.5	3.2	2.7	1.6
BARIUM	8.5	8.0	14.4	23.9	25.5	3.6
BERYLLIUM	0.06 U	0.07 U	0.06 U	0.06 U	0.06 U	0.06 U
CADMIUM	0.04 U	0.05 U	0.04 U	0.04 U	0.04 U	0.15

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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CALCIUM	161	341	251	722	937	72
CHROMIUM	7.7	11.3	5.3	12.2	11.2	6.9
COBALT	0.78	0.57	0.83	2.0	2.4	0.42
COPPER	6.4	2.5	11.3	14.8	7.0	3.9
CYANIDE	0.08	2.3 U	2.0 U	2.1 U	2.1 U	0.24
IRON	4770	4250	3940	8500	9530	4210
LEAD	4.7	2.2	5.9	10.4	5.5	2.8
MAGNESIUM	144	73.3	182	465	670	60.3
MANGANESE	15.9	9.3	43.8	54.8	50.2	4.9
MERCURY	0.06	0.06 U	0.08	0.05 U	0.05 U	0.05 U
NICKEL	1.9	5.8	2.9	6.4	5.8	0.74
POTASSIUM	123	104	111	274	346	54.5
SELENIUM	0.49 U	0.55 U	0.49 U	0.96	0.56	0.49 U
SILVER	0.24	0.21 U	0.39	0.19 U	0.19 U	0.18 U
SODIUM	22.0 U	32.3	36.1	33.0	29.3	21.8 U
THALLIUM	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
VANADIUM	12.4	8.4	9.9	23.4	17.6	11.9
ZINC	10.4	3.7	32.6	27.2	17.1	3.6
EXPLOSIVES (mg/kg)						
1,3,5-TRINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.25 U	0.023 J	0.25 U	0.25 U	0.25 U	0.25 U
2,4-DINITROTOLUENE	0.25 U	0.25 U	0.035 J	0.25 U	0.25 U	0.25 U
2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-AMINO-2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)						
TOTAL PETROLEUM HYDROCARBONS	230	20	37	31	390	390
DIOXINS (µg/kg)						
1,2,3,4,6,7,8,9-OCDD	1.5 J	0.3 U	0.4 U	3.1 J	6.2	1.2 J
1,2,3,4,6,7,8,9-OCDF	0.3 U	0.2 U	0.4 U	0.2 U	0.3 U	0.03 U
1,2,3,4,6,7,8-HPCDD	0.2 U	0.1 U	0.2 U	0.2 U	0.1 U	0.02 U
1,2,3,4,6,7,8-HPCDF	0.1 U	0.1 U	0.2 U	0.09 U	0.09 U	0.02 U
1,2,3,4,7,8,9-HPCDF	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.02 U
1,2,3,4,7,8-HXCDD	0.1 U	0.09 U	0.1 U	0.09 U	0.08 U	0.02 U
1,2,3,4,7,8-HXCDF	0.08 U	0.07 U	0.1 U	0.07 U	0.06 U	0.01 U
1,2,3,6,7,8-HXCDD	0.1 U	0.1 U	0.1 U	0.1 U	0.09 U	0.02 U
1,2,3,6,7,8-HXCDF	0.08 U	0.08 U	0.1 U	0.07 U	0.07 U	0.01 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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1,2,3,7,8,9-HXCDD	0.1 U	0.09 U	0.1 U	0.09 U	0.09 U	0.02 U
1,2,3,7,8,9-HXCDF	0.09 U	0.08 U	0.1 U	0.08 U	0.07 U	0.01 U
1,2,3,7,8-PECDD	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.03 U
1,2,3,7,8-PECDF	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U
2,3,4,6,7,8-HXCDF	0.09 U	0.08 U	0.1 U	0.08 U	0.07 U	0.01 U
2,3,4,7,8-PECDF	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U
2,3,7,8-TCDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U
2,3,7,8-TCDF	0.09 U	0.1 U	0.1 U	0.1 U	0.09 U	0.01 U
TOTAL HPCDD	0.2 U	0.1 U	0.2 U	0.2 U	0.1 U	0.02 U
TOTAL HPCDF	0.1 U	0.1 U	0.2 U	0.09 U	0.09 U	0.02 U
TOTAL HXCDD	0.1 U	0.09 U	0.1 U	0.09 U	0.08 U	0.02 U
TOTAL HXCDF	0.08 U	0.07 U	0.1 U	0.07 U	0.06 U	0.01 U
TOTAL PECDD	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.03 U
TOTAL PECDF	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U
TOTAL TCDD	2.1	2.1	2	2	2.2	2.1
TOTAL TCDF	0.09 U	0.1 U	0.1 U	0.1 U	0.09 U	0.08

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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VOLATILES (µg/kg)						
1,1,1-TRICHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	11 U	10 U	12 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	11 U	10 U	12 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	11 U	10 U	12 U	10 U
2-BUTANONE	10 U	10 U	11 U	10 U	12 U	10 U
2-HEXANONE	10 U	10 U	11 U	10 U	12 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	11 U	10 U	12 U	10 U
ACETONE	10 U	10 U	11 U	10 U	12 U	10 U
BENZENE	10 U	10 U	11 U	10 U	12 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	11 U	10 U	12 U	10 U
BROMOFORM	10 U	10 U	11 U	10 U	12 U	10 U
BROMOMETHANE	10 U	10 U	11 U	10 U	12 U	10 U
CARBON DISULFIDE	10 U	10 U	11 U	10 U	12 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	11 U	10 U	12 U	10 U
CHLOROBENZENE	10 U	10 U	11 U	10 U	12 U	10 U
CHLOROETHANE	10 U	10 U	11 U	10 U	12 U	10 U
CHLOROFORM	10 U	10 U	11 U	10 U	12 U	10 U
CHLOROMETHANE	10 U	10 U	11 U	10 U	12 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	11 U	10 U	12 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	11 U	10 U	12 U	10 U
ETHYLBENZENE	10 U	10 U	11 U	10 U	12 U	10 U
METHYLENE CHLORIDE	10 U	10 U	11 U	10 U	6 J	2 J
STYRENE	10 U	10 U	11 U	10 U	12 U	10 U
TETRACHLOROETHENE	10 U	10 U	11 U	10 U	12 U	10 U
TOLUENE	0.4 J	0.6 J	0.4 J	0.8 J	12 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	11 U	10 U	12 U	10 U
TRICHLOROETHENE	10 U	10 U	11 U	10 U	12 U	10 U
VINYL CHLORIDE	10 U	10 U	11 U	10 U	12 U	10 U
XYLENES, TOTAL	10 U	10 U	11 U	10 U	12 U	10 U
SEMIVOLATILES (µg/kg)						
1,2,4-TRICHLOROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
1,2-DICHLOROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
1,3-DICHLOROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
1,4-DICHLOROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	340 U	350 U	350 U	340 U	410 U	340 U
2,4,5-TRICHLOROPHENOL	820 U	840 U	860 U	820 U	990 U	840 U
2,4,6-TRICHLOROPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
2,4-DICHLOROPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
2,4-DIMETHYLPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
2,4-DINITROPHENOL	820 U	840 U	860 U	820 U	990 U	840 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-19-0315 07/26/1999 UNVALIDATED	0004-SB-20-0202 07/26/1999 UNVALIDATED	0004-SB-21-1912 07/26/1999 UNVALIDATED	0004-SB-22-1007 07/26/1999 UNVALIDATED	0004-SB-23-1207 08/05/1999 UNVALIDATED	0004-SB-24-1407 08/05/1999 UNVALIDATED
2,4-DINITROTOLUENE	340 U	350 U	350 U	340 U	410 U	340 U
2,6-DINITROTOLUENE	340 U	350 U	350 U	340 U	410 U	340 U
2-CHLORONAPHTHALENE	340 U	350 U	350 U	340 U	410 U	340 U
2-CHLOROPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
2-METHYLNAPHTHALENE	340 U	350 U	350 U	340 U	410 U	340 U
2-METHYLPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
2-NITROANILINE	820 U	840 U	860 U	820 U	990 U	840 U
2-NITROPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
3,3'-DICHLOROBENZIDINE	340 U	350 U	350 U	340 U	410 U	340 U
3-NITROANILINE	820 U	840 U	860 U	820 U	990 U	840 U
4,6-DINITRO-2-METHYLPHENOL	820 U	840 U	860 U	820 U	990 U	840 U
4-BROMOPHENYL PHENYL ETHER	340 U	350 U	350 U	340 U	410 U	340 U
4-CHLORO-3-METHYLPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
4-CHLOROANILINE	340 U	350 U	350 U	340 U	410 U	340 U
4-CHLOROPHENYL PHENYL ETHER	340 U	350 U	350 U	340 U	410 U	340 U
4-METHYLPHENOL	340 U	350 U	350 U	340 U	410 U	340 U
4-NITROANILINE	820 U	840 U	860 U	820 U	990 U	840 U
4-NITROPHENOL	820 U	840 U	860 U	820 U	990 U	840 U
ACENAPHTHENE	340 U	350 U	350 U	340 U	410 U	340 U
ACENAPHTHYLENE	340 U	350 U	350 U	340 U	410 U	340 U
ANTHRACENE	340 U	350 U	350 U	340 U	410 U	340 U
BENZO(A)ANTHRACENE	340 U	350 U	350 U	340 U	410 U	340 U
BENZO(A)PYRENE	340 U	350 U	350 U	340 U	410 U	340 U
BENZO(B)FLUORANTHENE	340 U	350 U	350 U	340 U	410 U	340 U
BENZO(G,H,I)PERYLENE	340 U	350 U	350 U	340 U	410 U	340 U
BENZO(K)FLUORANTHENE	340 U	350 U	350 U	340 U	410 U	340 U
BIS(2-CHLOROETHOXY)METHANE	340 U	350 U	350 U	340 U	410 U	340 U
BIS(2-CHLOROETHYL)ETHER	340 U	350 U	350 U	340 U	410 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	200	990 B	56	340 U	410 U	340 U
BUTYLBENZYL PHTHALATE	340 U	350 U	350 U	340 U	410 U	340 U
CARBAZOLE	340 U	350 U	350 U	340 U	410 U	340 U
CHRYSENE	340 U	350 U	350 U	340 U	410 U	340 U
DI-N-BUTYL PHTHALATE	340 U	350 U	350 U	340 U	410 U	340 U
DI-N-OCTYL PHTHALATE	340 U	350 U	350 U	340 U	410 U	340 U
DIBENZO(A,H)ANTHRACENE	340 U	350 U	350 U	340 U	410 U	340 U
DIBENZOFURAN	340 U	350 U	350 U	340 U	410 U	340 U
DIETHYL PHTHALATE	340 U	350 U	350 U	340 U	410 U	340 U
DIMETHYL PHTHALATE	340 U	350 U	350 U	340 U	410 U	340 U
FLUORANTHENE	340 U	350 U	350 U	340 U	410 U	340 U
FLUORENE	340 U	350 U	350 U	340 U	410 U	340 U
HEXACHLOROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
HEXACHLOROBUTADIENE	340 U	350 U	350 U	340 U	410 U	340 U
HEXACHLOROCYCLOPENTADIENE	340 U	350 U	350 U	340 U	410 U	340 U
HEXACHLOROETHANE	340 U	350 U	350 U	340 U	410 U	340 U
INDENO(1,2,3-CD)PYRENE	340 U	350 U	350 U	340 U	410 U	340 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-19-0315 07/26/1999 UNVALIDATED	0004-SB-20-0202 07/26/1999 UNVALIDATED	0004-SB-21-1912 07/26/1999 UNVALIDATED	0004-SB-22-1007 07/26/1999 UNVALIDATED	0004-SB-23-1207 08/05/1999 UNVALIDATED	0004-SB-24-1407 08/05/1999 UNVALIDATED
ISOPHORONE	340 U	350 U	350 U	340 U	410 U	340 U
N-NITROSO-DI-N-PROPYLAMINE	340 U	350 U	350 U	340 U	410 U	340 U
N-NITROSODIPHENYLAMINE	340 U	350 U	350 U	340 U	410 U	340 U
NAPHTHALENE	340 U	350 U	350 U	340 U	72 J	340 U
NITROBENZENE	340 U	350 U	350 U	340 U	410 U	340 U
PENTACHLOROPHENOL	820 U	840 U	860 U	820 U	990 U	840 U
PHENANTHRENE	340 U	350 U	350 U	340 U	49 J	340 U
PHENOL	340 U	350 U	350 U	340 U	410 U	340 U
PYRENE	340 U	350 U	350 U	340 U	50 J	340 U
PESTICIDES/PCBs (µg/kg)						
4,4'-DDD	3.4 U	3.5 U	3.6 U	3.4 U	4.1 U	2.2
4,4'-DDE	3.4 U	3.5 U	3.6 U	0.71	4.1 U	3.5 U
4,4'-DDT	3.4 U	3.5 U	3.6 U	3.4 U	4.1 U	3.5 U
ALDRIN	1.7 U	1.7 U	1.8 U	1.7 U	2.0 U	1.7 U
ALPHA-BHC	1.7 U	0.078	1.8 U	0.17	2.0 U	1.7 U
ALPHA-CHLORDANE	1.7 U	0.16	0.072	1.8	2.0 U	1.7 U
AROCLOR-1016	34 U	35 U	36 U	34 U	41 U	35 U
AROCLOR-1221	68 U	70 U	71 U	68 U	82 U	69 U
AROCLOR-1232	34 U	35 U	36 U	34 U	41 U	35 U
AROCLOR-1242	34 U	35 U	36 U	34 U	41 U	35 U
AROCLOR-1248	14	35 U	36 U	34 U	41 U	35 U
AROCLOR-1254	34 U	35 U	36 U	34 U	41 U	35 U
AROCLOR-1260	140	18	36 U	160	22	46
BETA-BHC	0.069	0.086	1.8 U	0.10	2.0 U	1.7 U
DELTA-BHC	1.7 U	1.7 U	1.8 U	1.7 U	2.0 U	1.7 U
DIELDRIN	1.6	0.20	3.6 U	2.5	4.1 U	3.5 U
ENDOSULFAN I	0.45	0.11	0.15	0.60	2.0 U	1.7 U
ENDOSULFAN II	3.4 U	3.5 U	3.6 U	3.4 U	4.1 U	3.5 U
ENDOSULFAN SULFATE	2.1	3.5 U	3.6 U	3.6	4.1 U	3.5 U
ENDRIN	0.18	3.5 U	3.6 U	1.1	4.1 U	3.5 U
ENDRIN ALDEHYDE	0.089	3.5 U	3.6 U	3.4 U	4.1 U	3.5 U
ENDRIN KETONE	3.4 U	3.5 U	3.6 U	3.4 U	4.1 U	3.5 U
GAMMA-BHC (LINDANE)	0.77	0.060 J	1.8 U	1.7 U	2.0 U	1.7 U
GAMMA-CHLORDANE	0.73	0.26	1.8 U	2.3	3.2	1.7 U
HEPTACHLOR	0.49	1.0	0.21	0.66	2.0 U	1.7 U
HEPTACHLOR EPOXIDE	1.7 U	1.7 U	1.8 U	0.040	2.0 U	1.7 U
METHOXYCHLOR	17 U	17 U	18 U	0.87	20 U	17 U
TOXAPHENE	170 U	170 U	180 U	170 U	200 U	170 U
INORGANICS (mg/kg)						
ALUMINUM	696	5530	2820	5060	7250	5790
ANTIMONY	0.43 U	0.44 U	0.45 U	0.64	4.4 U	3.7 U
ARSENIC	0.45 U	2.6	1.4	2	2.2	2.1
BARIUM	2.1	16.3	4.4	13.2	27.5	24.2
BERYLLIUM	0.06 U	0.06 U	0.06 U	0.06 U	0.07 U	0.06 U
CADMIUM	0.19	0.04 U	0.04 U	0.04 U	0.13	0.06

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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CALCIUM	60.6	53	427	1180	489	408
CHROMIUM	21.8	14.7	8.3	17.2	11.2	11.2
COBALT	0.19	0.82	0.35	3.2	2.2	2.3
COPPER	1.7	4	2.4	14.4	9.3	46.5
CYANIDE	0.46	0.12	2.1 U	0.08	2.5 U	2.1 U
IRON	930	9340	4950	7370	6350	5970
LEAD	1.2	3.7	2.8	14.7	7.8	11.4
MAGNESIUM	122	163	68.2	2970	388	486
MANGANESE	1.8	21.7	5.3	55	21.5	40.6
MERCURY	0.05 U	0.06	0.05 U	1.5	0.06 U	0.05 U
NICKEL	1.4	1.6	0.7	51.4	4.0	4.9
POTASSIUM	16.9	114	55.1	295	162	179
SELENIUM	0.49 U	0.67	0.52 U	0.7	0.59 U	0.62
SILVER	0.18 U	0.19 U	0.19 U	0.18 U	0.22 U	0.36
SODIUM	40.5	22.5 U	23 U	24.1	26.5 U	22.4 U
THALLIUM	1.2 U	1.2 U	1.3 U	1.2 U	1.5 U	1.2 U
VANADIUM	3.3	20.5	15.4	75.5	17.8	13.9
ZINC	3.2	4.6	4.9	13	116	84.5
EXPLOSIVES (mg/kg)						
1,3,5-TRINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-AMINO-2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)						
TOTAL PETROLEUM HYDROCARBONS	93	53	34	520	13	87
DIOXINS (µg/kg)						
1,2,3,4,6,7,8,9-OCDD	0.21 J	6.3	2.1 J	0.45 J	11.8	2.5 J
1,2,3,4,6,7,8,9-OCDF	0.06 U	0.07 U	0.05 U	0.05 U	0.04 U	0.05 U
1,2,3,4,6,7,8-HPCDD	0.05 U	0.04 U	0.04 U	0.04 U	0.09 J	0.04 U
1,2,3,4,6,7,8-HPCDF	0.04 U	0.04 U	0.03 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8,9-HPCDF	0.04 U	0.04 U	0.03 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8-HXCDD	0.04 U	0.04 U	0.03 U	0.03 U	0.02 U	0.03 U
1,2,3,4,7,8-HXCDF	0.03 U	0.03 U	0.02 U	0.02 U	0.01 U	0.02 U
1,2,3,6,7,8-HXCDD	0.04 U	0.04 U	0.03 U	0.03 U	0.02 U	0.03 U
1,2,3,6,7,8-HXCDF	0.03 U	0.03 U	0.02 U	0.02 U	0.05 J	0.02 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

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1,2,3,7,8,9-HXCDD	0.04 U	0.04 U	0.03 U	0.03 U	0.02 U	0.03 U
1,2,3,7,8,9-HXCDF	0.03 U	0.03 U	0.02 U	0.02 U	0.01 U	0.02 U
1,2,3,7,8-PECDD	0.08 U	0.05 U	0.05 U	0.04 U	0.05 U	0.05 U
1,2,3,7,8-PECDF	0.05 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
2,3,4,6,7,8-HXCDF	0.03 U	0.03 U	0.02 U	0.02 U	0.13 J	0.02 U
2,3,4,7,8-PECDF	0.05 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
2,3,7,8-TCDD	0.05 U	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U
2,3,7,8-TCDF	0.04 U	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U
TOTAL HPCDD	0.05 U	0.04 U	0.04 U	0.04 U	0.19	0.04 U
TOTAL HPCDF	0.04 U	0.04 U	0.03 U	0.02 U	0.02 U	0.02 U
TOTAL HXCDD	0.04 U	0.04 U	0.03 U	0.03 U	0.02 U	0.03 U
TOTAL HXCDF	0.03 U	0.03 U	0.02 U	0.02 U	1.4	0.02 U
TOTAL PECDD	0.08 U	0.05 U	0.05 U	0.04 U	0.05 U	0.05 U
TOTAL PECDF	0.05 U	0.03 U	0.03 U	0.03 U	5.3	0.03 U
TOTAL TCDD	2.1	2.1	2.3	2.3	2.2	2.1
TOTAL TCDF	0.14	0.08	0.03 U	0.08	0.97	0.11

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.:	0004-SB-25-0202	0004-SB-26-2210	0004-SB-27-2210	0004-SB-28	0004-SB-29	0004-SB-30	0004-SB-31	0004-SB-32-0903
SAMPLE DATE:	08/05/1999	08/05/1999	08/05/1999	08/20/1999	08/20/1999	08/20/1999	08/20/1999	08/23/1999
VALIDATION STATUS:	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED
VOLATILES (µg/kg)								
1,1,1-TRICHLOROETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	10 U	11 U	10 U	14 J	110 U	11 U	30	11 U
1,1,2-TRICHLOROETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
1,2-DICHLOROETHENE (TOTAL)	10 U	11 U	10 U	57 U	27 J	11 U	11 U	11 U
1,2-DICHLOROPROPANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
2-BUTANONE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
2-HEXANONE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
ACETONE	10 U	11 U	10 U	18 J	21 J	2.6 J	3.2 J	3.6 J
BENZENE	10 U	11 U	10 U	57 U	12 J	11 U	11 U	11 U
BROMODICHLOROMETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
BROMOFORM	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
BROMOMETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CARBON DISULFIDE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CHLOROBENZENE	10 U	11 U	10 U	5.8 J	110 U	11 U	11 U	11 U
CHLOROETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CHLOROFORM	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CHLOROMETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
ETHYLBENZENE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
METHYLENE CHLORIDE	2 J	2 J	3 J	57 U	110 U	11 U	11 U	1.5 J
STYRENE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
TETRACHLOROETHENE	10 U	11 U	10 U	5.9 J	110 U	11 U	11 U	11 U
TOLUENE	10 U	11 U	10 U	57 U	43 J	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
TRICHLOROETHENE	10 U	11 U	10 U	520	7700	11 U	11 U	11 U
VINYL CHLORIDE	10 U	11 U	10 U	57 U	110 U	11 U	11 U	11 U
XYLENES, TOTAL	10 U	11 U	10 U	6 J	180	11 U	11 U	11 U
SEMIVOLATILES (µg/kg)								
1,2,4-TRICHLOROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
1,2-DICHLOROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
1,3-DICHLOROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
1,4-DICHLOROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,2'-OXYBIS(1-CHLOROPROPANE)	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,4,5-TRICHLOROPHENOL	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
2,4,6-TRICHLOROPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,4-DICHLOROPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,4-DIMETHYLPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,4-DINITROPHENOL	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.:	0004-SB-25-0202	0004-SB-26-2210	0004-SB-27-2210	0004-SB-28	0004-SB-29	0004-SB-30	0004-SB-31	0004-SB-32-0903
SAMPLE DATE:	08/05/1999	08/05/1999	08/05/1999	08/20/1999	08/20/1999	08/20/1999	08/20/1999	08/23/1999
VALIDATION STATUS:	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED
2,4-DINITROTOLUENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2,6-DINITROTOLUENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2-CHLORONAPHTHALENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2-CHLOROPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2-METHYLNAPHTHALENE	340 U	260 J	350 U	3800 U	1800 J	370 U	370 U	370 U
2-METHYLPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
2-NITROANILINE	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
2-NITROPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
3,3'-DICHLOROBENZIDINE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
3-NITROANILINE	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
4,6-DINITRO-2-METHYLPHENOL	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
4-BROMOPHENYL PHENYL ETHER	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
4-CHLORO-3-METHYLPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
4-CHLOROANILINE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
4-CHLOROPHENYL PHENYL ETHER	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
4-METHYLPHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
4-NITROANILINE	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
4-NITROPHENOL	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
ACENAPHTHENE	340 U	190 J	350 U	3800 U	3800 U	370 U	370 U	370 U
ACENAPHTHYLENE	340 U	370 J	350 U	3800 U	3800 U	370 U	370 U	370 U
ANTHRACENE	340 U	440 J	350 U	3800 U	3800 U	370 U	370 U	370 U
BENZO(A)ANTHRACENE	340 U	1100	92 J	3800 U	3800 U	370 U	370 U	370 U
BENZO(A)PYRENE	340 U	1300	110 J	3800 U	3800 U	370 U	370 U	370 U
BENZO(B)FLUORANTHENE	340 U	1100	110 J	3800 U	3800 U	370 U	370 U	370 U
BENZO(G,H,I)PERYLENE	340 U	730	100 J	3800 U	3800 U	370 U	370 U	370 U
BENZO(K)FLUORANTHENE	340 U	310 J	44 J	3800 U	3800 U	370 U	370 U	370 U
BIS(2-CHLOROETHOXY)METHANE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
BIS(2-CHLOROETHYL)ETHER	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	99 J	95 J	1400
BUTYLBENZYL PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
CARBAZOLE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
CHRYSENE	340 U	1200	110 J	3800 U	3800 U	370 U	370 U	40 J
DI-N-BUTYL PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
DI-N-OCTYL PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
DIBENZO(A,H)ANTHRACENE	340 U	160 J	350 U	3800 U	3800 U	370 U	370 U	370 U
DIBENZOFURAN	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
DIETHYL PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	370 U	47 J	370 U
DIMETHYL PHTHALATE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
FLUORANTHENE	340 U	2700	190 J	3800 U	3800 U	370 U	370 U	370 U
FLUORENE	340 U	450 J	350 U	3800 U	3800 U	370 U	370 U	370 U
HEXACHLOROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
HEXACHLOROBUTADIENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
HEXACHLOROCYCLOPENTADIENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
HEXACHLOROETHANE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
INDENO(1,2,3-CD)PYRENE	340 U	610 J	82 J	3800 U	3800 U	370 U	370 U	370 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.:	0004-SB-25-0202	0004-SB-26-2210	0004-SB-27-2210	0004-SB-28	0004-SB-29	0004-SB-30	0004-SB-31	0004-SB-32-0903
SAMPLE DATE:	08/05/1999	08/05/1999	08/05/1999	08/20/1999	08/20/1999	08/20/1999	08/20/1999	08/23/1999
VALIDATION STATUS:	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED	UNVALIDATED
ISOPHORONE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
N-NITROSO-DI-N-PROPYLAMINE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
N-NITROSODIPHENYLAMINE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
NAPHTHALENE	340 U	140 J	350 U	3800 U	3800 U	370 U	370 U	370 U
NITROBENZENE	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
PENTACHLOROPHENOL	810 U	1700 U	840 U	9500 U	9500 U	940 U	930 U	940 U
PHENANTHRENE	340 U	2600	130 J	3800 U	1100 J	370 U	370 U	370 U
PHENOL	340 U	700 U	350 U	3800 U	3800 U	370 U	370 U	370 U
PYRENE	340 U	3900	160 J	3800 U	3800 U	370 U	370 U	57 J
PESTICIDES/PCBs (µg/kg)								
4,4'-DDD	3.4 U	3.5 U	3.5 U	19 U	3.8 U	3.7 U	3.7 U	3.7 U
4,4'-DDE	3.4 U	3.5 U	3.5 U	19 U	3.8 U	3.7 U	3.7 U	3.7 U
4,4'-DDT	3.4 U	3.5 U	3.5 U	19 U	3.8 U	3.7 U	3.7 U	3.2 J
ALDRIN	1.7 U	1.8 U	1.7 U	9.7 U	1.6 J	1.9 U	1.9 U	1.9 U
ALPHA-BHC	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
ALPHA-CHLORDANE	1.7 U	1.8 U	1.7 U	9.7 U	1.1 J	1.9 U	1.9 U	2.1
AROCLOR-1016	34 U	35 U	35 U	190 U	38 U	37 U	37 U	37 U
AROCLOR-1221	68 U	70 U	70 U	380 U	77 U	76 U	75 U	76 U
AROCLOR-1232	34 U	35 U	35 U	190 U	38 U	37 U	37 U	37 U
AROCLOR-1242	34 U	35 U	35 U	190 U	38 U	37 U	37 U	37 U
AROCLOR-1248	34 U	35 U	35 U	190 U	38 U	37 U	37 U	37 U
AROCLOR-1254	34 U	35 U	35 U	190 U	38 U	37 U	37 U	37 U
AROCLOR-1260	57	75	110	1600	71	37 U	37 U	770
BETA-BHC	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
DELTA-BHC	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
DIELDRIN	3.4 U	3.5 U	3.5 U	10 J	3.8 U	3.7 U	3.7 U	6.8
ENDOSULFAN I	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
ENDOSULFAN II	3.4 U	3.5 U	3.5 U	19 U	3.8 U	3.7 U	3.7 U	23
ENDOSULFAN SULFATE	3.4 U	3.5 U	2.0	19 U	3.8 U	3.7 U	3.7 U	3.7 U
ENDRIN	3.4 U	2.5	3.5 U	15 J	2.5 J	3.7 U	3.7 U	9.9
ENDRIN ALDEHYDE	3.4 U	3.5 U	3.5 U	48	3.8 U	3.7 U	3.7 U	21
ENDRIN KETONE	3.4 U	3.5 U	3.5 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
GAMMA-BHC (LINDANE)	1.7 U	1.1	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
GAMMA-CHLORDANE	1.7 U	14	1.8	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
HEPTACHLOR	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	1.7 U	1.8 U	1.7 U	9.7 U	1.9 U	1.9 U	1.9 U	1.9 U
METHOXYCHLOR	17 U	18 U	17 U	97 U	19 U	19 U	19 U	19 U
TOXAPHENE	170 U	180 U	170 U	970 U	190 U	190 U	190 U	190 U
INORGANICS (mg/kg)								
ALUMINUM	5590	4100	7270	3760	2750	3720	6180	4470
ANTIMONY	3.6 U	3.8 U	3.8 U	0.39 U	0.39 U	1.8	0.38 U	0.38 U
ARSENIC	2.5	2.6	2.6	1.4	1.6	2.4	2.4	2.3
BARIUM	20.7	28.9	24.8	5.2	5	4.7	8.5	10.9
BERYLLIUM	0.06 U	0.06 U	0.06 U	0.06	0.03	0.04	0.08	0.09
CADMIUM	0.04 U	0.20	0.04 U	0.69 U	0.69 U	6.7	0.67 U	0.68 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-25-0202 08/05/1999 UNVALIDATED	0004-SB-26-2210 08/05/1999 UNVALIDATED	0004-SB-27-2210 08/05/1999 UNVALIDATED	0004-SB-28 08/20/1999 UNVALIDATED	0004-SB-29 08/20/1999 UNVALIDATED	0004-SB-30 08/20/1999 UNVALIDATED	0004-SB-31 08/20/1999 UNVALIDATED	0004-SB-32-0903 08/23/1999 UNVALIDATED
CALCIUM	503	667	1950	41.8	38.6	61.7	194	582
CHROMIUM	9.9	10.0	13.6	9.3	16.7	7.7	9.3	10.6
COBALT	1.4	1.9	2.3	0.87 U	0.87 U	0.86 U	1.4	0.86 U
COPPER	16.2	41.4	17.0	9.6	2.9	3.7	9.5	8.1
CYANIDE	2.0 U	2.1 U	2.1 U	2.3	0.81	2.8 U	2.8 U	2.8 U
IRON	6800	5840	8580	3930	3780	5390	6690	6590
LEAD	11.6	25.7	12.6	3.2	3	2.8	3.5	6.8
MAGNESIUM	262	346	455	80.1	78.2	102	180	177
MANGANESE	39.7	236	59.3	5.6	5.5	6.5	13.1	16.6
MERCURY	0.24	0.05 U	0.05 U	0.06 U	0.06 U	0.06 U	0.06	0.14
NICKEL	3.2	6.2	4.8	2 U	2 U	2 U	4.2	2 U
POTASSIUM	125	138	192	108 U	108 U	106 U	166	165
SELENIUM	0.60	0.51 U	0.51 U	0.62 U	0.62 U	0.61 U	0.6 U	0.61 U
SILVER	0.18 U	1.0	0.19 U	0.5 U	0.5 U	0.71	0.49 U	0.5 U
SODIUM	21.7 U	22.8 U	22.6 U	32.8	55.3	34.9	57.8	38.9
THALLIUM	1.2 U	1.3 U	1.2 U	0.85 U	0.85 U	0.84 U	0.83 U	0.84 U
VANADIUM	16.3	14.6	17.0	9.1	9.4	13.2	15.3	14.4
ZINC	30.5	125	55.4	15	2.6	42.8	8	18.2
EXPLOSIVES (mg/kg)								
1,3,5-TRINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-AMINO-2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.65 U.	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)								
TOTAL PETROLEUM HYDROCARBONS	7.7 B	270	170	3000	5900	110 U	36 B	410
DIOXINS (µg/kg)								
1,2,3,4,6,7,8,9-OCDD	3.6 J	2.9 J	2.8 J	0.41 J	0.2 J	0.2 J	0.14 J	1 J
1,2,3,4,6,7,8,9-OCDF	0.03 U	0.04 U	0.03 U	0.06 U	0.05 U	0.03 U	0.02 U	0.04 U
1,2,3,4,6,7,8-HPCDD	0.03 U	0.03 U	0.03 U	0.04 U	0.05 U	0.02 U	0.02 U	0.03 U
1,2,3,4,6,7,8-HPCDF	0.02 U	0.02 U	0.02 U	0.03 U	0.05 U	0.01 U	0.01 U	0.02 U
1,2,3,4,7,8,9-HPCDF	0.02 U	0.02 U	0.02 U	21	0.05 U	0.01 U	0.01 U	0.02 U
1,2,3,4,7,8-HXCDD	0.02 U	0.02 U	0.02 U	0.04 U	0.04 U	0.02 U	0.01 U	0.02 U
1,2,3,4,7,8-HXCDF	0.01 U	0.01 U	0.01 U	0.02 U	0.04 U	0.01 U	0.008 U	0.01 U
1,2,3,6,7,8-HXCDD	0.02 U	0.02 U	0.02 U	1.8	0.04 U	0.02 U	0.01 U	0.02 U
1,2,3,6,7,8-HXCDF	0.01 U	0.01 U	0.01 U	0.02 U	0.04 U	0.01 U	0.009 U	0.01 U

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-25-0202 08/05/1999 UNVALIDATED	0004-SB-26-2210 08/05/1999 UNVALIDATED	0004-SB-27-2210 08/05/1999 UNVALIDATED	0004-SB-28 08/20/1999 UNVALIDATED	0004-SB-29 08/20/1999 UNVALIDATED	0004-SB-30 08/20/1999 UNVALIDATED	0004-SB-31 08/20/1999 UNVALIDATED	0004-SB-32-0903 08/23/1999 UNVALIDATED
1,2,3,7,8,9-HXCDD	0.02 U	0.02 U	0.02 U	0.03 U	0.04 U	0.02 U	0.01 U	0.02 U
1,2,3,7,8,9-HXCDF	0.01 U	0.01 U	0.01 U	0.02 U	0.04 U	0.01 U	0.009 U	0.02 U
1,2,3,7,8-PECDD	0.04 U	0.03 U	0.04 U	0.05 U	0.03 U	0.02 U	0.02 U	0.04 U
1,2,3,7,8-PECDF	0.03 U	0.02 U	0.02 U	0.03 U	0.02 U	0.01 U	0.01 U	0.02 U
2,3,4,6,7,8-HXCDF	0.01 U	0.01 U	0.01 U	0.02 U	0.04 U	0.01 U	0.01 U	0.02 U
2,3,4,7,8-PECDF	0.03 U	0.02 U	0.02 U	0.03 U	0.02 U	0.01 U	0.01 U	0.02 U
2,3,7,8-TCDD	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.01 U	0.01 U	0.02 U
2,3,7,8-TCDF	0.02 U	0.01 U	0.02 U	0.02 U	0.01 U	0.01 U	0.008 U	0.02 U
TOTAL HPCDD	0.03 U	0.03 U	0.03 U	0.04 U	0.05 U	0.02 U	0.02 U	0.03 U
TOTAL HPCDF	0.02 U	0.02 U	0.02 U	152	0.05 U	0.01 U	0.01 U	0.02 U
TOTAL HXCDD	0.02 U	0.02 U	0.02 U	13.2	0.04 U	0.02 U	0.01 U	0.02 U
TOTAL HXCDF	0.01 U	0.01 U	0.01 U	0.02 U	0.04 U	0.01 U	0.008 U	0.01 U
TOTAL PECDD	0.04 U	0.03 U	0.04 U	0.05 U	0.29	0.02 U	0.02 U	0.04 U
TOTAL PECDF	0.03 U	0.02 U	0.02 U	0.03 U	0.04	0.01 U	0.01 U	0.02 U
TOTAL TCDD	2.2	2.3	2.2	2.4	2.6	2.4	2.3	2.6
TOTAL TCDF	0.08	0.06	0.08	0.02 U	0.1	0.06	0.06	0.08

SITE 4 - THE CHEMICAL BURIAL AREA
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
THE FORMER NSWC-WHITE OAK, SILVER SPRING, MARYLAND

SAMPLE I.D.: SAMPLE DATE: VALIDATION STATUS:	0004-SB-33-1203 08/23/1999 UNVALIDATED	0004-SB-34-0702 08/23/1999 UNVALIDATED	0004-SB-35-1803 08/23/1999 UNVALIDATED	0004-SB-36-2002 08/23/1999 UNVALIDATED	0004-SB-37-0403 08/23/1999 UNVALIDATED	0004-SB-38-0403 08/23/1999 UNVALIDATED
VOLATILES (µg/kg)						
1,1,1-TRICHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	12 U	11 U	10 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
1,2-DICHLOROETHENE (TOTAL)	12 U	11 U	10 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	12 U	11 U	10 U	11 U	11 U	11 U
2-BUTANONE	12 U	11 U	10 U	11 U	11 U	1.5 J
2-HEXANONE	12 U	11 U	10 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	12 U	11 U	10 U	11 U	11 U	11 U
ACETONE	12 U	2.5 J	2 J	2.5 J	2.4 J	4.2 J
BENZENE	12 U	11 U	10 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	12 U	11 U	10 U	11 U	11 U	11 U
BROMOFORM	12 U	11 U	10 U	11 U	11 U	11 U
BROMOMETHANE	12 U	11 U	10 U	11 U	11 U	11 U
CARBON DISULFIDE	12 U	11 U	10 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	12 U	11 U	10 U	11 U	11 U	11 U
CHLOROBENZENE	12 U	11 U	10 U	11 U	11 U	11 U
CHLOROETHANE	12 U	11 U	10 U	11 U	11 U	11 U
CHLOROFORM	12 U	11 U	10 U	11 U	11 U	11 U
CHLOROMETHANE	12 U	11 U	10 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	12 U	11 U	10 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	12 U	11 U	10 U	11 U	11 U	11 U
ETHYLBENZENE	12 U	11 U	10 U	11 U	11 U	11 U
METHYLENE CHLORIDE	12 U	11 U	10 U	1.9 J	11 U	3.1 J
STYRENE	12 U	11 U	10 U	11 U	11 U	11 U
TETRACHLOROETHENE	12 U	11 U	10 U	11 U	11 U	11 U
TOLUENE	12 U	11 U	10 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	12 U	11 U	10 U	11 U	11 U	11 U
TRICHLOROETHENE	12 U	11 U	10 U	11 U	11 U	11 U
VINYL CHLORIDE	12 U	11 U	10 U	11 U	11 U	11 U
XYLENES, TOTAL	12 U	11 U	10 U	11 U	11 U	11 U
SEMIVOLATILES (µg/kg)						
1,2,4-TRICHLOROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
1,2-DICHLOROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
1,3-DICHLOROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
1,4-DICHLOROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	390 U	370 U	340 U	360 U	370 U	350 U
2,4,5-TRICHLOROPHENOL	990 U	920 U	860 U	910 U	940 U	880 U
2,4,6-TRICHLOROPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
2,4-DICHLOROPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
2,4-DIMETHYLPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
2,4-DINITROPHENOL	990 U	920 U	860 U	910 U	940 U	880 U

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2,4-DINITROTOLUENE	390 U	370 U	340 U	360 U	370 U	350 U
2,6-DINITROTOLUENE	390 U	370 U	340 U	360 U	370 U	350 U
2-CHLORONAPHTHALENE	390 U	370 U	340 U	360 U	370 U	350 U
2-CHLOROPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
2-METHYLNAPHTHALENE	390 U	370 U	340 U	360 U	370 U	350 U
2-METHYLPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
2-NITROANILINE	990 U	920 U	860 U	910 U	940 U	880 U
2-NITROPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
3,3'-DICHLOROBENZIDINE	390 U	370 U	340 U	360 U	370 U	350 U
3-NITROANILINE	990 U	920 U	860 U	910 U	940 U	880 U
4,6-DINITRO-2-METHYLPHENOL	990 U	920 U	860 U	910 U	940 U	880 U
4-BROMOPHENYL PHENYL ETHER	390 U	370 U	340 U	360 U	370 U	350 U
4-CHLORO-3-METHYLPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
4-CHLOROANILINE	390 U	370 U	340 U	360 U	370 U	350 U
4-CHLOROPHENYL PHENYL ETHER	390 U	370 U	340 U	360 U	370 U	350 U
4-METHYLPHENOL	390 U	370 U	340 U	360 U	370 U	350 U
4-NITROANILINE	990 U	920 U	860 U	910 U	940 U	880 U
4-NITROPHENOL	990 U	920 U	860 U	910 U	940 U	880 U
ACENAPHTHENE	390 U	370 U	340 U	360 U	370 U	350 U
ACENAPHTHYLENE	390 U	370 U	340 U	360 U	370 U	350 U
ANTHRACENE	390 U	370 U	340 U	360 U	370 U	350 U
BENZO(A)ANTHRACENE	390 U	370 U	340 U	360 U	370 U	350 U
BENZO(A)PYRENE	57 J	370 U	340 U	360 U	370 U	350 U
BENZO(B)FLUORANTHENE	43 J	370 U	340 U	360 U	370 U	350 U
BENZO(G,H,I)PERYLENE	58 J	370 U	340 U	360 U	370 U	350 U
BENZO(K)FLUORANTHENE	390 U	370 U	340 U	360 U	370 U	350 U
BIS(2-CHLOROETHOXY)METHANE	390 U	370 U	340 U	360 U	370 U	350 U
BIS(2-CHLOROETHYL)ETHER	390 U	370 U	340 U	360 U	370 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	120 J	70 J	52 J	85 J	470	83 J
BUTYLBENZYL PHTHALATE	390 U	370 U	340 U	360 U	370 U	350 U
CARBAZOLE	390 U	370 U	340 U	360 U	370 U	350 U
CHRYSENE	50 J	370 U	340 U	360 U	370 U	350 U
DI-N-BUTYL PHTHALATE	390 U	370 U	340 U	360 U	370 U	350 U
DI-N-OCTYL PHTHALATE	390 U	370 U	340 U	360 U	370 U	350 U
DIBENZO(A,H)ANTHRACENE	390 U	370 U	340 U	360 U	370 U	350 U
DIBENZOFURAN	390 U	370 U	340 U	360 U	370 U	350 U
DIETHYL PHTHALATE	390 U	370 U	340 U	360 U	370 U	350 U
DIMETHYL PHTHALATE	390 U	370 U	340 U	360 U	370 U	350 U
FLUORANTHENE	390 U	370 U	340 U	360 U	370 U	350 U
FLUORENE	390 U	370 U	340 U	360 U	370 U	350 U
HEXACHLOROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
HEXACHLOROBUTADIENE	390 U	370 U	340 U	360 U	370 U	350 U
HEXACHLOROCYCLOPENTADIENE	390 U	370 U	340 U	360 U	370 U	350 U
HEXACHLOROETHANE	390 U	370 U	340 U	360 U	370 U	350 U
INDENO(1,2,3-CD)PYRENE	57 J	370 U	340 U	360 U	370 U	350 U

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ISOPHORONE	390 U	370 U	340 U	360 U	370 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	390 U	370 U	340 U	360 U	370 U	350 U
N-NITROSODIPHENYLAMINE	390 U	370 U	340 U	360 U	370 U	350 U
NAPHTHALENE	390 U	370 U	340 U	360 U	370 U	350 U
NITROBENZENE	390 U	370 U	340 U	360 U	370 U	350 U
PENTACHLOROPHENOL	990 U	920 U	860 U	910 U	940 U	880 U
PHENANTHRENE	390 U	370 U	340 U	360 U	370 U	350 U
PHENOL	390 U	370 U	340 U	360 U	370 U	350 U
PYRENE	100 J	370 U	340 U	360 U	51 J	350 U
PESTICIDES/PCBs (µg/kg)						
4,4'-DDD	3.9 U	3.7 U	3.4 U	3.6 U	3.7 U	3.5 U
4,4'-DDE	3.9 U	3.7 U	3.4 U	3.6 U	3.7 U	3.5 U
4,4'-DDT	3.9 U	3.7 U	3.4 U	3.6 U	3.7 U	3.5 U
ALDRIN	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
ALPHA-BHC	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
ALPHA-CHLORDANE	1.9 J	1.9 U	1.7 J	1.9 U	1.1 J	1.8 U
AROCLOR-1016	39 U	37 U	34 U	36 U	37 U	35 U
AROCLOR-1221	80 U	74 U	70 U	73 U	76 U	71 U
AROCLOR-1232	39 U	37 U	34 U	36 U	37 U	35 U
AROCLOR-1242	39 U	37 U	34 U	36 U	37 U	35 U
AROCLOR-1248	39 U	37 U	34 U	36 U	37 U	35 U
AROCLOR-1254	39 U	37 U	34 U	36 U	37 U	35 U
AROCLOR-1260	330	37	210	130	190	89
BETA-BHC	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
DELTA-BHC	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
DIELDRIN	3.5 J	3.7 U	1.9 J	3.6 U	1.9 J	3.5 U
ENDOSULFAN I	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
ENDOSULFAN II	9.4	3.7 U	5.7	3.6 U	5.1	3.5 U
ENDOSULFAN SULFATE	3.9 U	3.7 U	3.4 U	3.6 U	3.7 U	3.5 U
ENDRIN	7.5	3.7 U	4.4	3.4 J	4.7	2.9 J
ENDRIN ALDEHYDE	9.5	3.7 U	5.3	3.5 J	5.1	2.4 J
ENDRIN KETONE	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
GAMMA-BHC (LINDANE)	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
GAMMA-CHLORDANE	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
HEPTACHLOR	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
HEPTACHLOR EPOXIDE	2 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
METHOXYCHLOR	20 U	19 U	18 U	19 U	19 U	18 U
TOXAPHENE	200 U	190 U	180 U	190 U	190 U	180 U
INORGANICS (mg/kg)						
ALUMINUM	7350	2510	4580	6050	10000	2200
ANTIMONY	0.64	0.44	0.44	0.37	0.42	0.36 U
ARSENIC	2.7	0.98	1.8	2.4	4.7	1.2
BARIUM	19.1	5	10.3	12.7	19.4	6.4
BERYLLIUM	0.15	0.05	0.09	0.09	0.14	0.07
CADMIUM	0.71 U	0.67 U	0.62 U	0.66 U	0.68 U	0.64 U

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CALCIUM	777	202	81.4	585	1260	272
CHROMIUM	12.5	4.1	8.6	9.9	17.9	5.9
COBALT	1.8	0.84 U	1.7	1.1	1.7	1.7
COPPER	16.2	2.7	3.4	39.9	29.3	3.2
CYANIDE	3 U	2.8 U	2.6 U	2.7 U	2.8 U	2.6 U
IRON	9050	3070	5710	7830	13700	3160
LEAD	9.3	2	3.7	4.9	10.2	2.3
MAGNESIUM	509	107	199	175	400	896
MANGANESE	44	9.4	19.4	21.2	33.9	17.5
MERCURY	0.08	0.12	0.05 U	0.05 U	0.25	0.05 U
NICKEL	5.7	2 U	1.8 U	2.1	2.4	12.6
POTASSIUM	240	104 U	239	123	119	159
SELENIUM	0.64 U	0.6 U	0.56 U	0.74	0.67	0.57 U
SILVER	0.52 U	0.49 U	0.54	0.48 U	0.5 U	0.56
SODIUM	44.3	28.9	30	29.6	39.2	34.2
THALLIUM	0.88 U	0.82 U	0.77 U	0.86	0.84 U	0.78 U
VANADIUM	18.3	7.5	15.5	15.2	30	6.9
ZINC	38.1	2.5	5.9	10.9	40.9	8.1
EXPLOSIVES (mg/kg)						
1,3,5-TRINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DINITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-AMINO-4,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-AMINO-2,6-DINITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-NITROTOLUENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
PETROLEUM (mg/kg)						
TOTAL PETROLEUM HYDROCARBONS	250	110 U	100 U	110 U	160	110 U
DIOXINS (µg/kg)						
1,2,3,4,6,7,8,9-OCDD	1.6 J	0.45 J	3.2 J	0.74 J	1.7 J	0.36 J
1,2,3,4,6,7,8,9-OCDF	0.03 U	0.03 U	0.02 U	0.03 U	0.03 U	0.03 U
1,2,3,4,6,7,8-HPCDD	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
1,2,3,4,6,7,8-HPCDF	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8,9-HPCDF	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8-HXCDD	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8-HXCDF	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,6,7,8-HXCDD	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
1,2,3,6,7,8-HXCDF	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

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1,2,3,7,8,9-HXCDD	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
1,2,3,7,8,9-HXCDF	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,7,8-PECDD	0.04 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,2,3,7,8-PECDF	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2,3,4,6,7,8-HXCDF	0.02 U	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U
2,3,4,7,8-PECDF	0.02 U	0.02 U	0.05	0.02 U	0.02 U	0.02 U
2,3,7,8-TCDD	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2,3,7,8-TCDF	0.02 U	0.01 U	0.01 U	0.02 U	0.02 U	0.01 U
TOTAL HPCDD	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
TOTAL HPCDF	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U
TOTAL HXCDD	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U
TOTAL HXCDF	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
TOTAL PECDD	0.04 U	0.03 U	0.53	0.03 U	0.03 U	0.03 U
TOTAL PECDF	0.02 U	0.02 U	0.05	0.02 U	0.02 U	0.02 U
TOTAL TCDD	2.7	2.4	2.4	2.2	2.3	2.2
TOTAL TCDF	0.08	0.07	0.07	0.08	0.1	0.06

Site 4 - Post Removal Analytical Results
Burial Area 3
Former NSWC White Oak

	EPA Region III RBC		0004-SB-01	0004-SB-02	0004-SB-03	0004-SB-04	0004-SB-05
	Industrial	Residential	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00
CLP Metals (mg/kg)							
aluminum	2,600,000	78,000	23,900	21,500	25,300	22,000	22,900
antimony	820	31	< 13.7	< 13.2	< 13.0	< 12.9	< 13.0
arsenic	3.8	0.43	***4.4***	***3.9***	***4.4***	***4.1***	***4.0***
barium	140,000	5,500	58.1	53	60.6	53.6	56.3
beryllium	4,100	160	0.030 J	0.041 J	< 1.1	0.085 J	< 1.1
cadmium	2,000	78	0.065 J	< 1.1	< 1.1	< 1.1	< 1.1
calcium			322 J	198 J	145 J	155 J	147 J
chromium, total	3,100,000	120,000	24.8	20.8	25.4	21.8	23.5
cobalt	120,000	4,700	11.6	13	11.9	16.5	11.9
copper	82,000	3,100	21.3	20.3	22.6	22.4	21.9
iron	610,000	23,000	***26,900***	***25,800***	***26,700***	***26,900***	***27,000***
lead		400 (*)	13.2	13.4	12.7	12.7	12.7
magnesium			3,490	2,140	2,240	2,100	2,340
manganese	41,000	1,600	216	285	237	299	217
mercury	610	23	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
molybdenum	10,000	390	< 0.91	< 0.88	< 0.87	0.15 J	< 0.87
nickel	41,000	1,600	31.4	17.2	18.1	22.6	17.5
potassium			1,490	1,360	1,540	1,360	1,540
selenium	10,000	390	1.9	1.7	7	4.1	3.5
silver	10,000	390	< 2.3	< 2.2	< 2.2	< 2.1	< 2.2
sodium			< 1140	< 1100	< 1080	< 1070	< 1080
thallium	140	5.5	< 2.3	< 2.2	< 2.2	< 2.1	< 2.2
vanadium	14,000	550	36.9	34.2	36.9	34.6	35.3
zinc	610,000	23,000	41.2	36	36.5	35	35.7
VOCs (ug/kg)			Non Detect				
SVOCs (ug/kg)			Non Detect				
Pesticides/PCBs (ug/kg)							
aroclor 1260	2,900	320	***330***	200	230	***810***	***400***
Explosives (ug/kg)			Non Detect				

Notes:

RBC - EPA Region III Risk Based Concentration, 4/13/00.

J - Estimated value.

Bold - Concentration exceeds residential RBC.

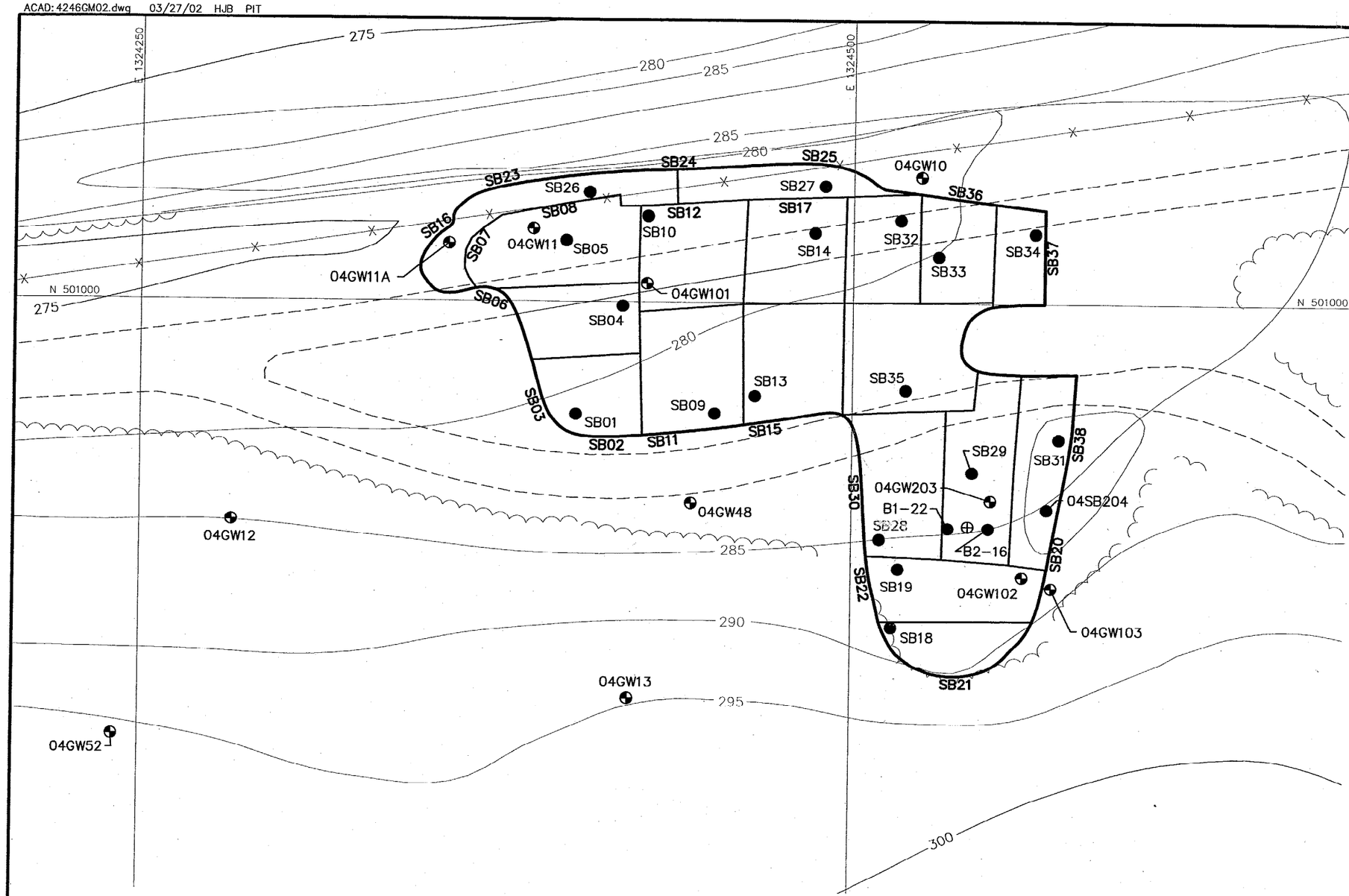
*** - Standard for lead is OSWER soil screening level.**

Unvalidated Results
Compounds Detected in the Encore Soil Samples at Sites 4 and 13
Former NSWC White Oak

Site	Site 4				
Boring	04GW203			04SB204	
Sample Number	04GW203-20	04GW203-26	04GW203-30	04SB204-23	04SB204-31
Sample Date	9/9/01	9/9/01	9/9/01	9/10/01	9/10/01
Chemical Name					
Volatile Organic Compounds (ug/kg)					
1,1,1-Trichloroethane	15 U	10 U	9.5 U	16	11 U
1,1,2,2-Tetrachloroethane	27	10 U	9.5 U	120	24
1,2,4-Trichlorobenzene	60 B	10 U	9.5 U	12 U	3 J
1,2-Dibromo-3-Chloropropane	15 U	10 U	9.5 U	12 U	3 J
1,2-Dichlorobenzene	15 U	10 U	9.5 U	12 U	1 JB
1,2-Dichloroethane	15 U	10 U	9.5 U	4 J	11 U
1,4-Dichlorobenzene	15 U	10 U	9.5 U	12 U	11 U
2-Hexanone	15 U	10 U	9.5 U	12 U	11 U
Acetone	15 U	10 U	9.5 U	12 U	11 U
Carbon Disulfide	4 J	10 U	9.5 U	12 U	11 U
Carbon Tetrachloride	15 U	10 U	9.5 U	12 J	11 U
Chlorobenzene	2 J	10 U	9.5 U	12 U	11 U
Chloromethane	4 J	4 J	2 J	3 J	2 J
cis-1,2-Dichloroethene	15 U	10 U	9.5 U	5 J	2 J
Cyclohexane	15 U	10 U	9.5 U	14	11 U
Ethylbenzene	3 J	2 J	9.5 U	32	11 U
FREON 113	NA	NA	NA	37	11 U
Isopropylbenzene	3 J	3 J	9.5 U	48	11 U
Methyl Acetate	15 U	10 U	9.5 U	6 J	11 U
Methylcyclohexane	7 J	2 J	9.5 U	77	11 U
Styrene	15 U	1 J	9.5 U	12 U	11 U
Tetrachloroethene	5 J	10 U	9.5 U	37	11 U
Trichloroethene	3,200 D	120	2 J	11,000 D	6 JB
Xylenes, Total	17	15	9.5 U	240	11 U
Wet Chemistry (%)					
Percent Solids	93.6	88.7	91	NA	NA
Total Organic Carbon	NA	NA	2,260	NA	NA

NA - Not analyzed
U - Not Detected
J - Estimated Concentration
B - Compound found in blank at similar concentration
D - result from diluted sample

ACAD: 4246GM02.dwg 03/27/02 HJB PIT



LEGEND:

- MONITORING WELL
- FLOOR SAMPLE
- APPROXIMATE SOIL GAS SAMPLE LOCATION
- SB38 WALL SAMPLE
- LIMIT OF EXCAVATION (APPROXIMATE)
- SAMPLING GRID BOUNDARY (APPROXIMATE)
- FENCE LINE
- TREE LINE

NOTES:

1.) MAP DEVELOPED FROM 1985 AERIAL PHOTO. MONITORING WELL LOCATIONS TAKEN FROM LAND SURVEY COMPLETED BY MURPHY HOBSON SACKS, MAY 1995.

2.) LIMITS OF EXCAVATION AND SOIL SAMPLE LOCATIONS ARE APPROXIMATE. A SURVEY WAS NOT PREFORMED.

3.) SAMPLE ID'S IN BOLD INDICATE WALL SAMPLES. ALL OTHER SAMPLES FROM THE EXCAVATION FLOOR.

4.) TO SIMPLIFY THE FIGURE, THE SITE INDICATOR (0004) AND GRID/DEPTH INDICATEORS WERE OMITTED FROM THE SAMPLE IDS.

0 40 80
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY HJB DATE 3/27/02
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

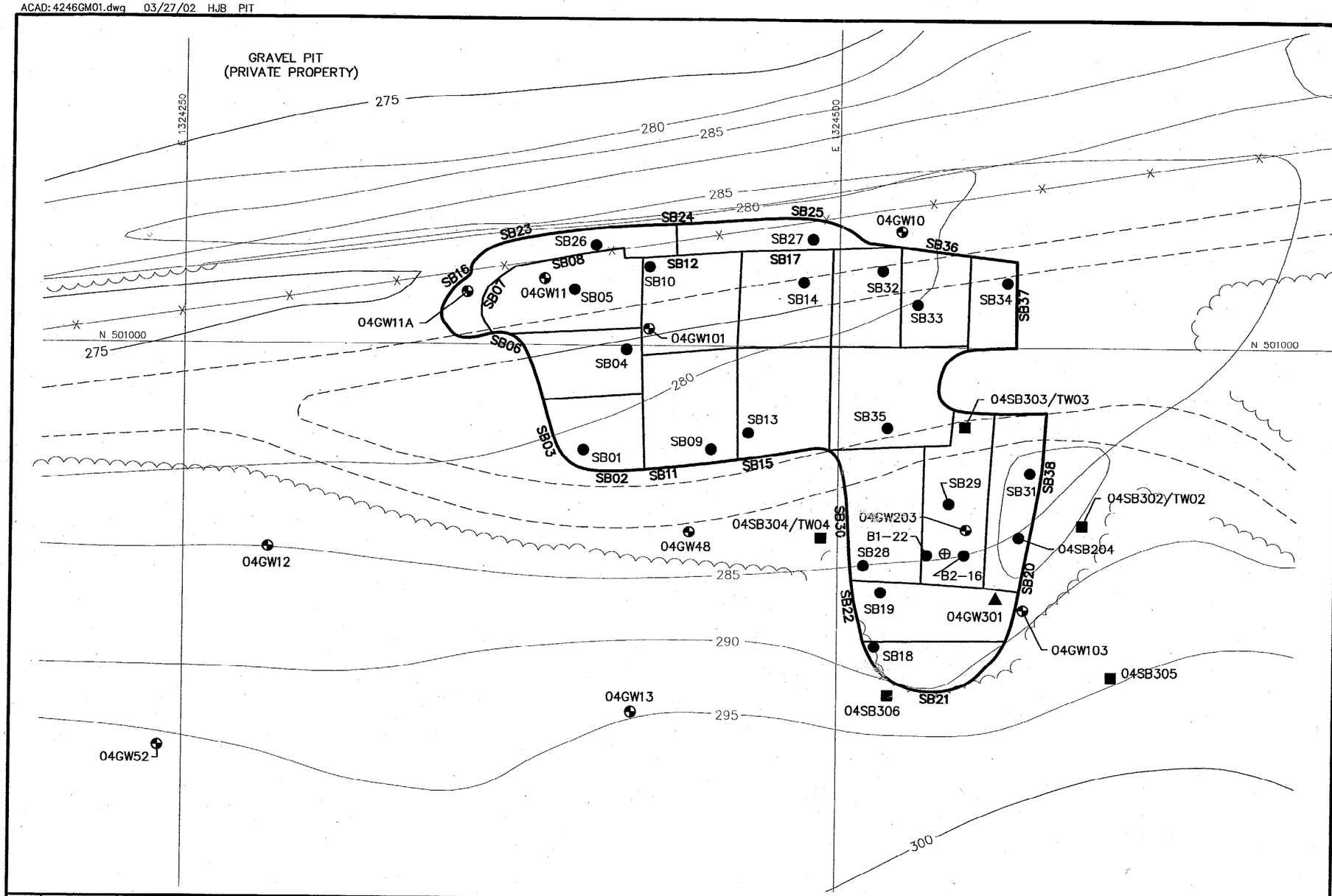
EXISTING CONDITIONS
SITE 4 SUBSURFACE SAMPLING
PHASE II RFI/SOIL FS
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO. 4246
OWNER NO. 0839
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 1
REV. 0

FORM CADD NO. T+NUS_BH.DGN - REV 0 - 1/20/98

00492ABIZ

ACAD: 4246GM01.dwg 03/27/02 HJB PIT



LEGEND:

- MONITORING WELL
- FLOOR SAMPLE
- APPROXIMATE SOIL GAS SAMPLE LOCATION
- PROPOSED SOIL BORING/ TEMPORARY MONITORING WELL
- PROPOSED MONITORING WELL
- **SB38** WALL SAMPLE
- LIMIT OF EXCAVATION (APPROXIMATE)
- SAMPLING GRID BOUNDARY (APPROXIMATE)
- FENCE LINE
- TREE LINE

NOTES:

1.) MAP DEVELOPED FROM 1985 AERIAL PHOTO. MONITORING WELL LOCATIONS TAKEN FROM LAND SURVEY COMPLETED BY MURPHY HOBSON SACKS, MAY 1995.

2.) LIMITS OF EXCAVATION AND SOIL SAMPLE LOCATIONS ARE APPROXIMATE. A SURVEY WAS NOT PREFORMED.

3.) SAMPLE ID'S IN BOLD INDICATE WALL SAMPLES. ALL OTHER SAMPLES FROM THE EXCAVATION FLOOR.

4.) TO SIMPLIFY THE FIGURE, THE SITE INDICATOR (0004) AND GRID/DEPTH INDICATEORS WERE OMITTED FROM THE SAMPLE IDS.

0 40 80
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY HJB DATE 3/27/02
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

PROPOSED SAMPLING LOCATIONS
SITE 4 SUBSURFACE SAMPLING
PHASE II RFI/SOIL FS
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO. 4246
OWNER NO. 0839
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2
REV. 0

FORM CADD NO. TtNUS_BH.DGN - REV 0 - 1/20/98