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NAWC WARMINSTER
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C-51-11-8-30

November 12, 1998

Project Number 6883

Mr. Lonnie Monaco
Naval Facilities Engineering Command (NAVFACENGCOM)
Northern division
Environmental Contracts Branch, Mail Stop No. 82
10 Industrial Highway
Lester, Pennsylvania 19113

Reference: CLEAN Contract No. N624272-D-1298
Contract Task Order (CTO) No. 252

Subject: Evaluation of Site 2 Soil Data, Area A
Naval Air Warfare Center (NAWC) Warminster, Pennsylvania

Dear Mr. Monaco:

This letter presents the results of the risk evaluation of soil data collected at Site 2 in Area A of the subject facility. In addition to presenting the results of the risk evaluation, recommendations are offered regarding the need for additional excavations within the area. These recommendations supplement those presented in the Tetra Tech NUS (TtNUS) letter dated October 29, 1998 (C-51-10-8-77) which presented the preliminary results of the verification sampling from excavation 2A.

A risk evaluation, as requested by the EPA, was completed for Site 2 using the data presented in the Removal Site Evaluation Report (RSER) (Brown & Root Environmental, April 1998), the data collected during the June and October 1998 supplemental investigations, and the results of the October 1998 verification sampling. The analytical results for these investigations were combined into one database for evaluation. Before the data was evaluated the sample locations and depths were reviewed and the sample results for soil that had been excavated during the removals at Sites 2A, 2B, and 2C were removed from consideration. Figures 1 and 2 show the sample locations that were included in the risk evaluation. Attachment 1 presents a summary of the analytical results for each sample. The data has not undergone a complete validation. Analytical result reports, sample logs, and boring logs are presented in the Phase III RI (Brown & Root Environmental, November 1996), the TtNUS July 21 1998 letter (C-51-7-8-20) regarding subsurface soils, the TtNUS July 28 1998 letter (C-51-7-8-39) regarding surface soils, and the TtNUS letter dated October 29 1998 (C-51-10-8-77) regarding verification and supplemental investigation sample results.

The risk evaluation was prepared as a revision or an update to the risk assessment presented in the RSER. Surface and subsurface soils were evaluated separately. Risks were estimated for potential industrial (site worker) and residential risk exposure scenarios. Site 2 has been identified for industrial use in the approved re-use plan. The results of the risk evaluation are presented in Attachment 2.

Findings

The estimated industrial exposure cancer risk posed by surface soils is 1.27E-05. This is within the risk range of 1E-04 to 1E-06 considered to be acceptable by EPA and PADEP. The total of all non-carcinogenic Hazard Quotients (HQs) for the industrial exposure scenario results in a Hazard Index (HI) of 1.29. This exceeds the EPA benchmark of 1.0 indicating that additional evaluation of specific target organ

HQs is required. As presented in Attachment 2, no total target organ specific HQs results in an HI greater than or equal to 1.0, indicating that adverse health effects are not anticipated from Contaminant of Potential Concern (COPC) exposure.

The estimated industrial exposure cancer risk posed by subsurface soils is 1.14E-05. This is within the risk range of 1E-04 to 1E-06 considered to be acceptable by EPA and PADEP. The total of all non-carcinogenic HQs for the industrial exposure scenario equals an HI of 0.7. This is below the EPA benchmark of 1.0, indicating that adverse health effects are not anticipated.

Estimated residential cancer risks were slightly elevated above estimated industrial risks but they remain within the 1E-05 risk range. Residential non-cancer His exceeded EPA's benchmark of 1.0 (see Attachment 2 for details).

Lead risks were also evaluated using both an industrial (site worker) and residential scenario. The risks were evaluated by applying the EPA approved Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil (EPA, 1996) and the IEUBK Lead Model. The site worker model predicts fetal blood lead levels of no greater than 7.07 ug/dl and 5.79 ug/dl in 95% of a population exposed to contact with Site 2 surface and subsurface soils respectively. Both of these predicted levels are below the 10-ug/dl benchmark protection level used by EPA to evaluate risks during the initial risk evaluation. Estimated residential blood lead levels exceed the EPA benchmark protection level used to evaluate site data (see Attachment 2 for details).

Recommendations

The results of the risk evaluation indicate that no unacceptable human health risks associated with industrial uses of Site 2 exist. It is recommended that no additional removal actions be taken within this area.

In regard to the current removal actions, it is recommended that the preliminary recommendations presented in the October 29, 1998 letter be accepted as final. Specifically, it is recommended that the southern wall of the excavation adjacent to the access road be further excavated to remove the waste layer and shallow soils (less than 2 feet in depth) identified to contain elevated levels of lead. At the completion of this excavation verification samples should be collected and analyzed for lead only. The analytical results should be compared to the PRG for lead and statistically evaluated to determine attainment of the clean-up goals.

Respectfully,

Garth Glenn
Project Manager

GG/nfs

c: Tom Ames (NAVFACENGCOM)
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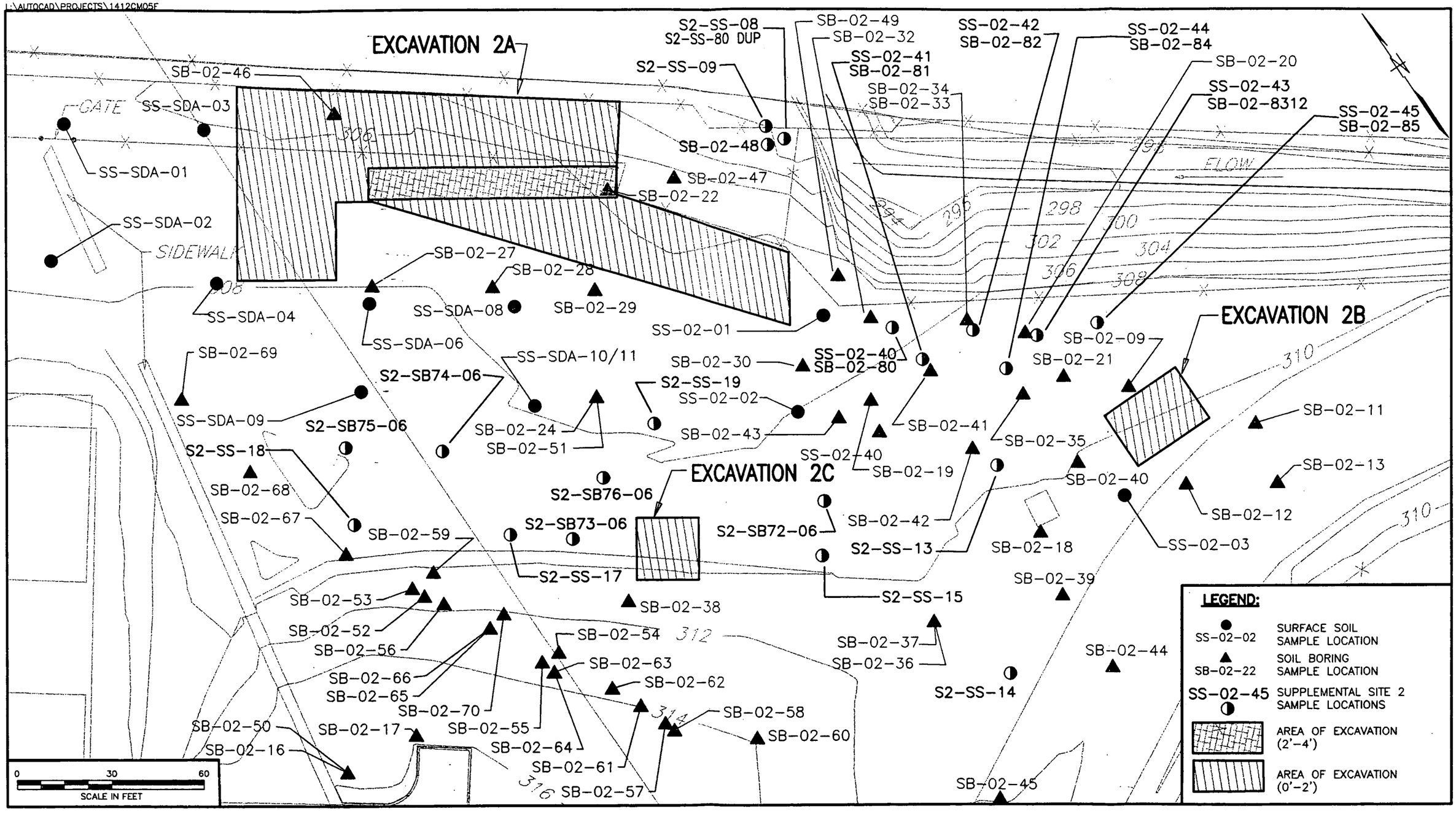


FIGURE 1

AREA OF EXCAVATION
AREA A – SITE 2
NAWC, WARMINSTER, PA
09/24/1998

Tetra Tech NUS, Inc.

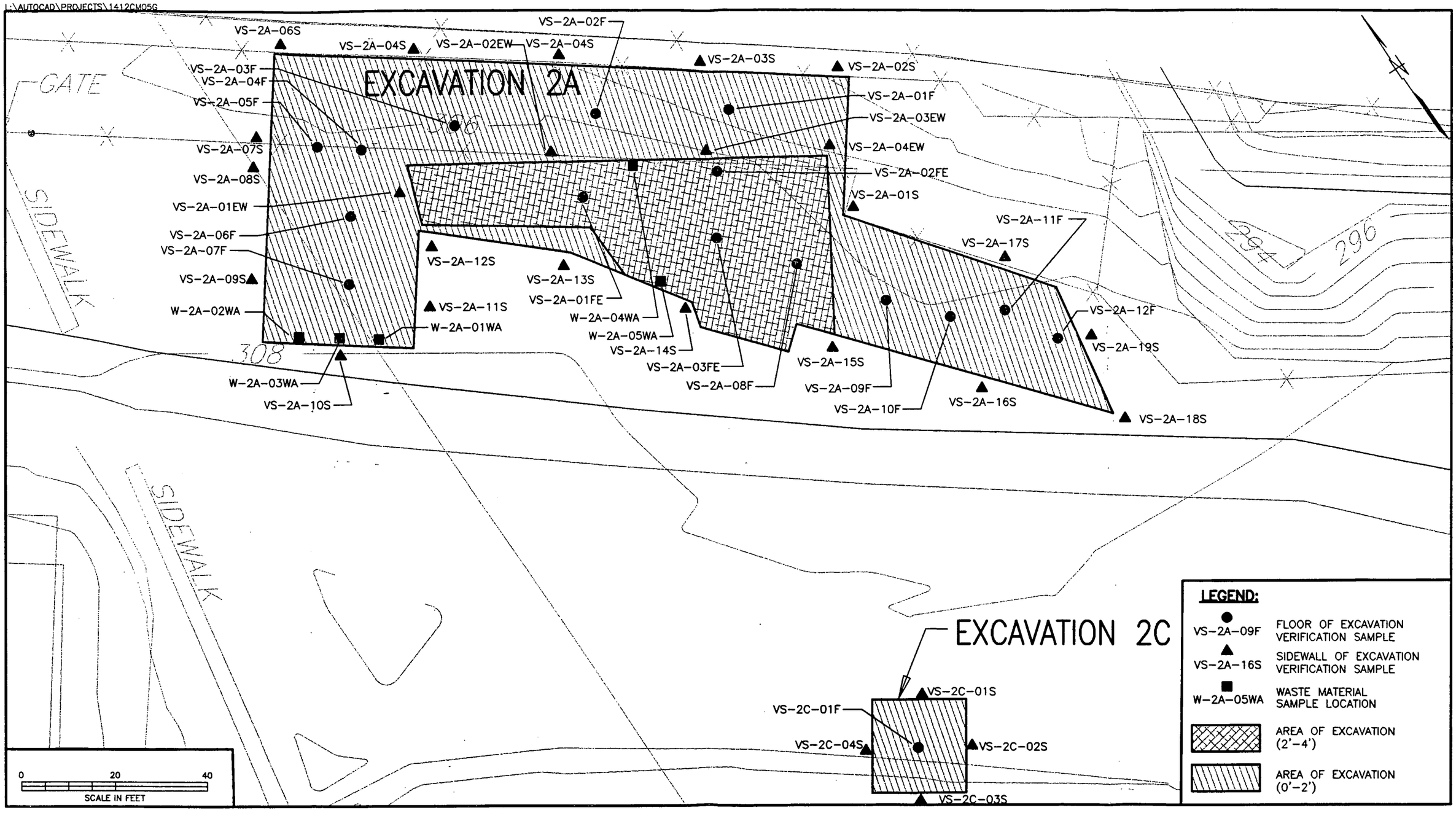


FIGURE 2

AREA OF EXCAVATION
AREA A – SITE 2
NAWC, WARMINSTER, PA
09/24/1998

Tetra Tech NUS, Inc.

ATTACHMENT 1

Summary of Analytical Results
Site 2, NAWC Warminster

(Portions of this data set are not validated).
(Footnotes may not be accurate for all data.)

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-08	S2-SS-08-DUP	S2-SS-09	S2-SS-13	S2-SS-14	S2-SS-15	S2-SS-17	S2-SS-17-DUP
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	12300	10400	11300	9090	10400	12500	11000	13200
Antimony	3.3 J	0.38 L	2.2 L	0.28 L	0.39 L	0.58 L	0.63 L	4.8 J
Arsenic	7.2 K	3.3 K	4.9 K	7.5 K	4.3 K	3.6 K	3.4 K	6.6 K
Barium	452 L	96.5 L	173 L	75.5 L	74.7 L	118 L	92.4 L	222 L
Beryllium	0.93	1.2	0.75	0.93	1	1	1.4	0.92
Cadmium	8.8 K	2.3 K	6.9 K	1.8 K	1.7 K	1 U	2 K	10 K
Calcium	5920	4650	6210	6890	5250	4100	4840	5750
Chromium	58	35.5	44	36.3	26.1	52.9	43.3	51.5
Cobalt	12.4 K	12.9	9.7	11	10.8	11.3	12.1	12.1 K
Copper	729	62.5	187	17.6	16.2	27.5	46.7	393
Iron	30800	17900	21100	20400	20000	18900	20600	38000
Lead	431 J	61.1 J	253 J	49.6 J	25.2 J	29.4 J	44.3 J	468 J
Magnesium	3160	4590	2400	8840	4970	4870	4620	3280
Manganese	1020 J	557 J	909 J	441 J	609 J	472 J	533 J	933 J
Mercury	0.53 L	0.18 L	0.38 L	0.34 L	0.11 UL	1.1 L	0.14 L	0.38 L
Nickel	47	17.5	23.4	19.5	18.1	17.4	19.7	40.6
Potassium	1150	1910	1210	2340	1670	1760	2140	1250
Selenium	1.3 K	0.79 U	0.89 K	0.75 U	1.2 K	0.85 U	0.8 U	1.6 K
Silver	58.4	3.1	7.6	1.2	1.3	2.8	3.4	17.1
Sodium	183 J	174 J	124 J	268 J	154 J	1870 J	299 J	195 J
Thallium	1.2 UL	1 U	1.3	1	1.3	1.1 U	1 U	1.4
Vanadium	46.4	23.5	38.3	29.7	28.9	30.9	25.4	43.7
Zinc	933 J	154 J	558 J	129 J	72.8 J	102 J	120 J	970 J

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-08	S2-SS-08-DUP	S2-SS-09	S2-SS-13	S2-SS-14	S2-SS-15	S2-SS-17	S2-SS-17-DUP
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
1,2-Dichlorobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
1,3-Dichlorobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
1,4-Dichlorobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2,4,5-Trichlorophenol	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
2,4,6-Trichlorophenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2,4-Dichlorophenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2,4-Dimethylphenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2,4-Dinitrophenol	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
2,4-Dinitrotoluene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2,6-Dinitrotoluene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2-Chloronaphthalene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2-Chlorophenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2-Methylnaphthalene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2-Methylphenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
2-Nitroaniline	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
2-Nitrophenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
3,3'-Dichlorobenzidine	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
3-Nitroaniline	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
4,6-Dinitro-2-methylphenol	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-08	S2-SS-08-DUP	S2-SS-09	S2-SS-13	S2-SS-14	S2-SS-15	S2-SS-17	S2-SS-17-DUP
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
4-Chloro-3-methylphenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
4-Chloroaniline	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
4-Chlorophenyl Phenyl Ether	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
4-Methylphenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
4-Nitroaniline	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
4-Nitrophenol	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
Acenaphthene	44 J	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Acenaphthylene	62 J	360 U	150 J	340 U	220 J	380 U	360 U	53 J
Anthracene	130 J	360 U	160 J	62 J	150 J	380 U	360 U	82 J
Benzo(a)anthracene	580	130 J	1200	320 J	1000	190 J	200 J	370 J
Benzo(a)pyrene	540	150 J	1600	370	1000	280 J	250 J	460
Benzo(b)fluoranthene	890	180 J	2500	640	1500	360 J	300 J	690
Benzo(g,h,i)perylene	180 J	360 U	100 J	340 U	75 J	380 U	360 U	410 U
Benzo(k)fluoranthene	540	150 J	1200	440	640	290 J	240 J	520
Bis(2-chloroethoxy)methane	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Bis(2-chloroethyl)ether	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Bis(2-ethylhexyl)phthalate	120 J	360 U	150 J	340 U	360 U	380 U	360 U	140 J
Butylbenzylphthalate	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Carbazole	100 J	360 U	71 J	340 U	48 J	380 U	360 U	410 U
Chrysene	690	170 J	1400	430	1200	270 J	260 J	490
Di-n-butylphthalate	47 J	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Di-n-octylphthalate	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Dibenz(a,h)anthracene	60 J	360 U	110 J	340 U	120 J	380 U	360 U	410 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-08	S2-SS-08-DUP	S2-SS-09	S2-SS-13	S2-SS-14	S2-SS-15	S2-SS-17	S2-SS-17-DUP
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Diethylphthalate	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Dimethylphthalate	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Fluoranthene	1300	210 J	1800	810	1400	450	390	830
Fluorene	50 J	360 U	380 U	340 U	58 J	380 U	360 U	410 U
Hexachlorobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Hexachlorobutadiene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Hexachlorocyclopentadiene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Hexachloroethane	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Indeno(1,2,3-cd)pyrene	190 J	59 J	410	100 J	310 J	73 J	78 J	120 J
Isophorone	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
N-Nitroso-di-n-propylamine	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
N-Nitrosodiphenylamine (1)	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Naphthalene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Nitrobenzene	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Pentachlorophenol	1100 U	900 U	960 U	850 U	910 U	970 U	900 U	1000 U
Phenanthrene	600	66 J	480	360	570	120 J	150 J	280 J
Phenol	430 U	360 U	380 U	340 U	360 U	380 U	360 U	410 U
Pyrene	790	160 J	1500	540	1300	350 J	290 J	590
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Aroclor-1016	43 U	36 U	38 U	34 U	180 U	38 U	36 U	41 U
Aroclor-1221	87 U	73 U	77 U	69 U	370 U	78 U	73 U	83 U
Aroclor-1232	43 U	36 U	38 U	34 U	180 U	38 U	36 U	41 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-08	S2-SS-08-DUP	S2-SS-09	S2-SS-13	S2-SS-14	S2-SS-15	S2-SS-17	S2-SS-17-DUP
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Aroclor-1242	43 U	36 U	38 U	34 U	180 U	38 U	36 U	41 U
Aroclor-1248	43 U	36 U	38 U	34 U	180 U	38 U	36 U	41 U
Aroclor-1254	140	69	38 U	56	590	64	85	140
Aroclor-1260	43 U	36 U	110	34 U	180 U	38 U	36 U	41 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	9730	13600	11800	12900	n/a	n/a	n/a	n/a
Antimony	0.4 L	0.45 J	10.7 J	7 UJ	0.44 BN	0.19 BN	1.4 N	0.2 BN
Arsenic	3.8 K	5.7 K	6.1	13.1	n/a	n/a	n/a	n/a
Barium	79.3 L	99 L	237	66.7	n/a	n/a	n/a	n/a
Beryllium	0.91	1.2	0.72 K	1.3 K	n/a	n/a	n/a	n/a
Cadmium	1.8 K	1.6 K	9.3	0.5 U	0.14 B	0.23 U	6	0.7
Calcium	3620	5560	11900	18800	n/a	n/a	n/a	n/a
Chromium	51.4	45.7	36.3	42.9	n/a	n/a	n/a	n/a
Cobalt	11	12.9 K	8.3 K	14.4 K	n/a	n/a	n/a	n/a
Copper	27	28.2	584	47.9	28.3	8.3	1410	28.4
Cyanide	n/a	n/a	0.57 UL	0.52 UL	n/a	n/a	n/a	n/a
Iron	17700	24600	21200	34400	n/a	n/a	n/a	n/a
Lead	31.5 J	34.7 J	401	65.3	27.3 E	13.3 E	994 E	125 E
Magnesium	3340	5440	7450	13200	n/a	n/a	n/a	n/a
Manganese	585 J	618 J	973	682	n/a	n/a	n/a	n/a
Mercury	0.11 UL	0.62 L	0.81	0.12 B	n/a	n/a	n/a	n/a
Nickel	13.3	20	23.2 B	25.4 B	n/a	n/a	n/a	n/a
Potassium	1200	2590	734	2140	n/a	n/a	n/a	n/a
Selenium	0.81 U	0.79 UL	0.6 UJ	0.5 UJ	n/a	n/a	n/a	n/a
Silver	2.7	2.3	13.1 J	1.6 B	0.54 U	0.57 U	0.36 B	0.57 U
Sodium	292 J	527 J	242 B	285	n/a	n/a	n/a	n/a
Thallium	1 U	1.1	0.6 U	0.5 UJ	n/a	n/a	n/a	n/a
Vanadium	24.1	33.4	25.8	56.9	n/a	n/a	n/a	n/a
Zinc	100 J	89.7 J	1220	117	110	30.3	4800	227

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
1,2-Dichlorobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
1,3-Dichlorobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
1,4-Dichlorobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2,4,5-Trichlorophenol	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
2,4,6-Trichlorophenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2,4-Dichlorophenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2,4-Dimethylphenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2,4-Dinitrophenol	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
2,4-Dinitrotoluene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2,6-Dinitrotoluene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2-Chloronaphthalene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2-Chlorophenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2-Methylnaphthalene	370 U	360 U	370 U	46 J	n/a	n/a	n/a	n/a
2-Methylphenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
2-Nitroaniline	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
2-Nitrophenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
3,3'-Dichlorobenzidine	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
3-Nitroaniline	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
4,6-Dinitro-2-methylphenol	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
4-Chloro-3-methylphenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
4-Chloroaniline	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
4-Chlorophenyl Phenyl Ether	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
4-Methylphenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
4-Nitroaniline	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
4-Nitrophenol	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
Acenaphthene	370 U	360 U	130 J	43 J	n/a	n/a	n/a	n/a
Acenaphthylene	370 U	360 U	64 J	350 U	n/a	n/a	n/a	n/a
Anthracene	51 J	65 J	490	160 J	n/a	n/a	n/a	n/a
Benzo(a)anthracene	270 J	270 J	1600	770	n/a	n/a	n/a	n/a
Benzo(a)pyrene	250 J	1000	1300	730	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene	370	410	1900	1200	n/a	n/a	n/a	n/a
Benzo(g,h,i)perylene	370 U	540	840	500	n/a	n/a	n/a	n/a
Benzo(k)fluoranthene	330 J	350 J	490	420	n/a	n/a	n/a	n/a
Bis(2-chloroethoxy)methane	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Bis(2-chloroethyl)ether	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Bis(2-ethylhexyl)phthalate	370 U	360 U	100 B	100 B	n/a	n/a	n/a	n/a
Butylbenzylphthalate	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Carbazole	370 U	85 J	190 J	140 J	n/a	n/a	n/a	n/a
Chrysene	340 J	380	1400	880	n/a	n/a	n/a	n/a
Di-n-butylphthalate	370 U	360 U	61 J	350 U	n/a	n/a	n/a	n/a
Di-n-octylphthalate	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Dibenz(a,h)anthracene	370 U	360 U	240 J	37 J	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	370 U	360 U	73 J	41 J	n/a	n/a	n/a	n/a
Diethylphthalate	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Dimethylphthalate	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Fluoranthene	500	560	2400	1700	n/a	n/a	n/a	n/a
Fluorene	370 U	360 U	140 J	67 J	n/a	n/a	n/a	n/a
Hexachlorobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Hexachlorobutadiene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Hexachlorocyclopentadiene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Hexachloroethane	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	78 J	280 J	790	470	n/a	n/a	n/a	n/a
Isophorone	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
N-Nitroso-di-n-propylamine	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
N-Nitrosodiphenylamine (1)	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Naphthalene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Nitrobenzene	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Pentachlorophenol	920 U	900 U	890 U	850 U	n/a	n/a	n/a	n/a
Phenanthrene	240 J	280 J	1400	990	n/a	n/a	n/a	n/a
Phenol	370 U	360 U	370 U	350 U	n/a	n/a	n/a	n/a
Pyrene	370	690	2600	1500	n/a	n/a	n/a	n/a
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,1,2,2-Tetrachloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,1,2-Trichloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,1-Dichloroethene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,2-Dichloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,2-Dichloroethene (Total)	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
1,2-Dichloropropane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
2-Butanone	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
2-Hexanone	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
4-Methyl-2-pentanone	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Acetone	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Benzene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Bromodichloromethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Bromoform	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Bromomethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Carbon Disulfide	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Carbon Tetrachloride	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Chlorobenzene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Chloroethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Chloroform	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Chloromethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Dibromochloromethane	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Ethylbenzene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Methylene Chloride	n/a	n/a	5 B	10 U	n/a	n/a	n/a	n/a
Styrene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Tetrachloroethene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	n/a	n/a	11 U	2 J	n/a	n/a	n/a	n/a
Trichloroethene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Vinyl Chloride	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
Xylene (Total)	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
cis-1,3-Dichloropropene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
trans-1,3-Dichloropropene	n/a	n/a	11 U	10 U	n/a	n/a	n/a	n/a
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
4,4'-DDE	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
4,4'-DDT	n/a	n/a	3.7 U	4.9 J	n/a	n/a	n/a	n/a
Aldrin	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Alpha-BHC	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Alpha-Chlordane	n/a	n/a	4.6 J	1.8 U	n/a	n/a	n/a	n/a
Aroclor-1016	37 U	72 U	37 U	35 U	n/a	n/a	n/a	n/a
Aroclor-1221	74 U	150 U	74 U	71 U	n/a	n/a	n/a	n/a
Aroclor-1232	37 U	72 U	37 U	35 U	n/a	n/a	n/a	n/a
Aroclor-1242	37 U	72 U	37 U	35 U	n/a	n/a	n/a	n/a
Aroclor-1248	37 U	72 U	37 U	35 U	n/a	n/a	n/a	n/a
Aroclor-1254	110	490	160 J	67 J	n/a	n/a	n/a	n/a
Aroclor-1260	37 U	72 U	37 U	35 U	n/a	n/a	n/a	n/a
Beta-BHC	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Delta-BHC	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Dieldrin	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SS-18	S2-SS-19	SS-02-02	SS-02-03	SS-02-40	SS-02-41	SS-02-42	SS-02-43
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Endosulfan II	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
Endosulfan Sulfate	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
Endrin	n/a	n/a	16 J	3.5 U	n/a	n/a	n/a	n/a
Endrin Aldehyde	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
Endrin Ketone	n/a	n/a	3.7 U	3.5 U	n/a	n/a	n/a	n/a
Gamma-BHC (Lindane)	n/a	n/a	2.3 J	3.4 J	n/a	n/a	n/a	n/a
Gamma-Chlordane	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Heptachlor	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Heptachlor Epoxide	n/a	n/a	1.9 U	1.8 U	n/a	n/a	n/a	n/a
Methoxychlor	n/a	n/a	19 U	18 U	n/a	n/a	n/a	n/a
Toxaphene	n/a	n/a	190 U	180 U	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	n/a	n/a	17800	16900	19800	15700	14700	14000
Antimony	0.43 BN	0.38 BN	7.8 UJ	8.1 UJ	7.3 UJ	7.9 UJ	7.8 UJ	7.9 J
Arsenic	n/a	n/a	4.3	3.1 L	7.8	5	4 L	5.3
Barium	n/a	n/a	58.4	47	58.6	101	97.9	163
Beryllium	n/a	n/a	0.78 K	0.63 K	0.74 K	1.4 K	1.4 K	1 K
Cadmium	0.23 U	0.83	2.8 B	0.58 U	2.1 B	0.56 U	0.56 U	5.8
Calcium	n/a	n/a	1050	1120	1350	1140	1730	9040
Chromium	n/a	n/a	126	19.1	116	20.4	22.7	81.1
Cobalt	n/a	n/a	14.4 K	12.1 K	12 K	10.7 K	13.2 K	10.4 K
Copper	15	20.4	12.3	7.7	14.2	8.9	21	141
Cyanide	n/a	n/a	0.55 UL	0.58 UL	0.55 UL	0.59 UL	0.58 UL	0.58 UL
Iron	n/a	n/a	21100	17500	29100	16700	26100	29000
Lead	11.2 E	32.6 E	17.1	9.4	15.4	15.8	22.5	212
Magnesium	n/a	n/a	2260	1900	2430	2430	3360	4710
Manganese	n/a	n/a	586	862	426	919	1040	643
Mercury	n/a	n/a	0.16 B	0.16 B	0.23 B	0.25 B	0.31 B	0.18 B
Nickel	n/a	n/a	14.1 B	11.4 B	13.8 B	13.9 B	14.8 B	21.2 B
Potassium	n/a	n/a	994	684	828	978	1890	951
Selenium	n/a	n/a	0.56 UJ	0.58 UJ	0.52 UJ	0.56 UJ	0.56 UJ	0.56 UJ
Silver	0.58 U	0.19 B	0.86 B	0.77 UJ	2.3 B	0.75 UJ	0.75 B	7.7 J
Sodium	n/a	n/a	85.4 B	96.5 B	78.5 B	88.9 B	126 B	122 B
Thallium	n/a	n/a	0.56 U	0.58 U	0.52 UJ	0.56 U	0.56 UJ	0.56 UJ
Vanadium	n/a	n/a	31.8	26.5	40.9	25.5	29.7	28.3
Zinc	37.1	75	39.6	25.2	42.7	40.8	47.2	507

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
1,2-Dichlorobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
1,3-Dichlorobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
1,4-Dichlorobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2,4,5-Trichlorophenol	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
2,4,6-Trichlorophenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2,4-Dichlorophenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2,4-Dimethylphenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2,4-Dinitrophenol	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
2,4-Dinitrotoluene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2,6-Dinitrotoluene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2-Chloronaphthalene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2-Chlorophenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2-Methylnaphthalene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2-Methylphenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
2-Nitroaniline	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
2-Nitrophenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
3,3'-Dichlorobenzidine	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
3-Nitroaniline	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
4,6-Dinitro-2-methylphenol	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
4-Chloro-3-methylphenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
4-Chloroaniline	n/a	n/a	360 UJ	380 UJ	370 UJ	400 UJ	390 UJ	380 U
4-Chlorophenyl Phenyl Ether	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
4-Methylphenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
4-Nitroaniline	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
4-Nitrophenol	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
Acenaphthene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	120 J
Acenaphthylene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	62 J
Anthracene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	420
Benzo(a)anthracene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	1600
Benzo(a)pyrene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	1400
Benzo(b)fluoranthene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	2700
Benzo(g,h,i)perylene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	1000
Benzo(k)fluoranthene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	390
Bis(2-chloroethoxy)methane	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Bis(2-chloroethyl)ether	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Bis(2-ethylhexyl)phthalate	n/a	n/a	81 B	92 B	79 B	75 B	95 B	130 B
Butylbenzylphthalate	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Carbazole	n/a	n/a	360 U	380 U	370 U	400 U	390 U	130 J
Chrysene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	1700
Di-n-butylphthalate	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Di-n-octylphthalate	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Dibenz(a,h)anthracene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	73 J

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	n/a	n/a	360 U	380 U	370 U	400 U	390 U	69 J
Diethylphthalate	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Dimethylphthalate	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Fluoranthene	n/a	n/a	360 U	380 U	370 U	400 U	43 J	2600
Fluorene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	140 J
Hexachlorobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Hexachlorobutadiene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Hexachlorocyclopentadiene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Hexachloroethane	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Indeno(1,2,3-cd)pyrene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	930
Isophorone	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
N-Nitroso-di-n-propylamine	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
N-Nitrosodiphenylamine (1)	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Naphthalene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Nitrobenzene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Pentachlorophenol	n/a	n/a	870 U	930 U	900 U	960 U	940 U	910 U
Phenanthrene	n/a	n/a	360 U	380 U	370 U	400 U	390 U	1500
Phenol	n/a	n/a	360 U	380 U	370 U	400 U	390 U	380 U
Pyrene	n/a	n/a	360 U	380 U	370 U	400 U	40 J	2900
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
1,1,2,2-Tetrachloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
1,1,2-Trichloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
1,1-Dichloroethene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
1,2-Dichloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
1,2-Dichloroethene (Total)	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
1,2-Dichloropropane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
2-Butanone	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
2-Hexanone	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
4-Methyl-2-pentanone	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
Acetone	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Benzene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Bromodichloromethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Bromoform	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Bromomethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Carbon Disulfide	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Carbon Tetrachloride	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Chlorobenzene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
Chloroethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Chloroform	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Chloromethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Dibromochloromethane	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Ethylbenzene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
Methylene Chloride	n/a	n/a	11 U	12 U	11 U	9 B	12 U	4 B
Styrene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
Tetrachloroethene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
Trichloroethene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Vinyl Chloride	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
Xylene (Total)	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 UJ
cis-1,3-Dichloropropene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
trans-1,3-Dichloropropene	n/a	n/a	11 U	12 U	11 U	11 U	12 U	11 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
4,4'-DDE	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
4,4'-DDT	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	4.2 J
Aldrin	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Alpha-BHC	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Alpha-Chlordane	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	160
Aroclor-1016	n/a	n/a	36 U	38 U	37 U	40 U	39 U	38 U
Aroclor-1221	n/a	n/a	73 U	78 U	76 U	80 U	79 U	76 U
Aroclor-1232	n/a	n/a	36 U	38 U	37 U	40 U	39 U	38 U
Aroclor-1242	n/a	n/a	36 U	38 U	37 U	40 U	39 U	38 U
Aroclor-1248	n/a	n/a	36 U	38 U	37 U	40 U	39 U	38 U
Aroclor-1254	n/a	n/a	36 U	38 U	37 U	40 U	26 J	3700
Aroclor-1260	n/a	n/a	36 U	38 U	37 U	40 U	39 U	38 U
Beta-BHC	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Delta-BHC	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Dieldrin	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	32 J

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-02-44	SS-02-45	SS-SDA-01	SS-SDA-02	SS-SDA-03	SS-SDA-04	SS-SDA-08	SS-SDA-09
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Endosulfan II	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
Endosulfan Sulfate	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
Endrin	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	7.3	370 J
Endrin Aldehyde	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
Endrin Ketone	n/a	n/a	3.6 U	3.8 U	3.7 U	4 U	3.9 U	3.8 U
Gamma-BHC (Lindane)	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	2.4 J
Gamma-Chlordane	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	11 J
Heptachlor	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Heptachlor Epoxide	n/a	n/a	1.8 U	2 U	1.9 U	2 U	2 U	1.9 U
Methoxychlor	n/a	n/a	18 U	20 U	19 U	20 U	20 U	19 U
Toxaphene	n/a	n/a	180 U	200 U	190 U	200 U	200 U	190 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	16500	18300	n/a	n/a	n/a	n/a	n/a	n/a
Antimony	8.2 UJ	8.8 UJ	4.9 N	1.3 N	4.9 N	0.89 BN	8.5 N	0.47 BN
Arsenic	5.7	5.9	n/a	n/a	n/a	n/a	n/a	n/a
Barium	53	43.8	n/a	n/a	n/a	n/a	n/a	n/a
Beryllium	0.73 K	0.68 K	n/a	n/a	n/a	n/a	n/a	n/a
Cadmium	0.59 U	0.63 U	20.3	0.61	6.7	0.94	15	0.26 N
Calcium	1240	886	n/a	n/a	n/a	n/a	n/a	n/a
Chromium	21.7	24.2	n/a	n/a	n/a	n/a	n/a	n/a
Cobalt	10.8 K	10.3 K	n/a	n/a	n/a	n/a	n/a	n/a
Copper	14.9	14.9	386	9.7	121	8.2	315	5.7
Cyanide	0.59 UL	0.6 UL	n/a	n/a	n/a	n/a	n/a	n/a
Iron	22700	25200	n/a	n/a	n/a	n/a	n/a	n/a
Lead	12.5	9	420	19.5	261	12.8	449	13.7 N
Magnesium	2660	2790	n/a	n/a	n/a	n/a	n/a	n/a
Manganese	364	337	n/a	n/a	n/a	n/a	n/a	n/a
Mercury	0.11 B	0.06 B	n/a	n/a	n/a	n/a	n/a	n/a
Nickel	14.3 B	13.7 B	n/a	n/a	n/a	n/a	n/a	n/a
Potassium	818	952	n/a	n/a	n/a	n/a	n/a	n/a
Selenium	0.59 UJ	0.63 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Silver	0.78 UJ	0.84 UJ	13.7	0.6 U	5.2	0.59 U	16.4	0.61 U
Sodium	92.1 B	92.2 B	n/a	n/a	n/a	n/a	n/a	n/a
Thallium	0.59 U	0.63 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Vanadium	36.6	40.6	n/a	n/a	n/a	n/a	n/a	n/a
Zinc	33.5	30.7	688	41.1	377	30.2	1130	32.2

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichlorobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
1,3-Dichlorobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
1,4-Dichlorobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4,5-Trichlorophenol	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4,6-Trichlorophenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dimethylphenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrophenol	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrotoluene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2,6-Dinitrotoluene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Chloronaphthalene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Chlorophenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylnaphthalene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylphenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Nitroaniline	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Nitrophenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
3,3'-Dichlorobenzidine	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
3-Nitroaniline	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
4,6-Dinitro-2-methylphenol	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloro-3-methylphenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloroaniline	390 UJ	410 UJ	n/a	n/a	n/a	n/a	n/a	n/a
4-Chlorophenyl Phenyl Ether	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Methylphenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitroaniline	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitrophenol	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthylene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Anthracene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)pyrene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(g,h,i)perylene	390 U	410 U	3100	400 U	970	390 U	400	410 U
Benzo(k)fluoranthene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethoxy)methane	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethyl)ether	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-ethylhexyl)phthalate	110 B	1800	n/a	n/a	n/a	n/a	n/a	n/a
Butylbenzylphthalate	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Carbazole	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Chrysene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Di-n-butylphthalate	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Di-n-octylphthalate	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Dibenz(a,h)anthracene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Diethylphthalate	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Dimethylphthalate	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Fluoranthene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Fluorene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobutadiene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorocyclopentadiene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Hexachloroethane	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	390 U	410 U	4300	49 J	1300	390 U	540	410 U
Isophorone	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
N-Nitroso-di-n-propylamine	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
N-Nitrosodiphenylamine (1)	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Nitrobenzene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Pentachlorophenol	950 U	1000 U	n/a	n/a	n/a	n/a	n/a	n/a
Phenanthrene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Phenol	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
Pyrene	390 U	410 U	n/a	n/a	n/a	n/a	n/a	n/a
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2,2-Tetrachloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2-Trichloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethene (Total)	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloropropane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Butanone	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Hexanone	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Methyl-2-pentanone	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Acetone	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Benzene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromodichloromethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromoform	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromomethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Carbon Disulfide	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Carbon Tetrachloride	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chlorobenzene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloroethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloroform	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloromethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Dibromochloromethane	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Methylene Chloride	4 B	8 B	n/a	n/a	n/a	n/a	n/a	n/a
Styrene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Tetrachloroethene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Trichloroethene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Vinyl Chloride	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Xylene (Total)	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
cis-1,3-Dichloropropene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
trans-1,3-Dichloropropene	12 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
4,4'-DDE	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
4,4'-DDT	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Aldrin	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-BHC	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-Chlordane	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1016	39 U	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1221	80 U	83 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1232	39 U	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1242	39 U	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1248	39 U	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1254	11 J	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1260	39 U	41 U	n/a	n/a	n/a	n/a	n/a	n/a
Beta-BHC	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Delta-BHC	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Dieldrin	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SS-SDA-10	SS-SDA-10-DUP	VS-2A-01S	VS-2A-02S	VS-2A-03S	VS-2A-04S	VS-2A-05S	VS-2A-06S
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Endosulfan II	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Endosulfan Sulfate	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Endrin	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Endrin Aldehyde	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Endrin Ketone	3.9 U	4.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Gamma-BHC (Lindane)	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Gamma-Chlordane	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Heptachlor	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Heptachlor Epoxide	2 U	2.1 U	n/a	n/a	n/a	n/a	n/a	n/a
Methoxychlor	20 U	21 U	n/a	n/a	n/a	n/a	n/a	n/a
Toxaphene	200 U	210 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	VS-2A-07S	VS-2A-08S	VS-2A-09S	VS-2A-10S	VS-2A-11S	VS-2A-12S	VS-2A-12S-DUP	VS-2A-13S
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Antimony	0.99 BN	0.77 BN	0.8 BN	111 N	1.3 N	0.39 BN	0.59 BN	0.96 BN
Cadmium	0.51 N	0.78 N	0.21 B	26.1	1.1	0.06 B	0.27	1.2
Copper	23.4	12.9	10.2	1280	20	10.6	10.5	16.1
Lead	17.2 N	25.7 N	11.8	6650	28 E	4.4	13.2	59.9
Silver	0.6 U	0.59 U	0.56 U	90.7	0.33 B	0.57 U	0.14 B	0.26 BN
Zinc	37.2	63.1	23	3000	337	16.2	35.7	59.8
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Benzo(g,h,i)perylene	55 J	2000	500	510	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	72 J	2500	440	550	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	VS-2A-14S	VS-2A-15S	VS-2A-15S-DUP	VS-2A-16S	VS-2A-17S	VS-2A-18S	VS-2A-18S-DUP	VS-2A-19S
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Antimony	4.7 N	0.3 BN	0.38 BN	0.87 BN	10.8 N*	0.8 BN	1.1 BN	0.63 BN
Cadmium	6.9	0.21 U	0.23 U	0.3	11.1	0.43	0.47	0.79
Copper	155	17.2 N	17.2 N	38.8 N	281 N	35.5 N*	27.5 N*	25.9 N*
Lead	295	8 *	6.3 *	22.6 *	340 *	35.2 BN	42.5 BN	38.2 BN
Silver	7.3	0.53 UN	0.56 UN	0.97 N*	9.5 N*	0.31 B	0.5 B	0.57 B
Zinc	434	28.5 N	29.6 N	80.1 N	626 N	87.4	113	83.5
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Benzo(g,h,i)perylene	n/a	1900	2200	380 U	250 J	530	64 J	440
Indeno(1,2,3-cd)pyrene	n/a	2200	2600	380 U	330 J	690	69 J	480

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	W-2A-01WA	W-2A-02WA	W-2A-03WA	---	---	---	---	---
LOCATION:				---	---	---	---	---
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**					
Antimony	1.7 N*	33.7 N*	198 N*					
Cadmium	1.7	47.1	59.3					
Copper	98 N*	13600 N	5410 N					
Lead	383 *	856 *	7350 *					
Silver	12.8 N*	126 N*	210 N*					
Zinc	147	1730 N	3160 N					

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

NOTES:

J	--	Value is considered estimated due to exceedance of technical quality control criteria or because result is less than the Contract Required Quantitation Limit (CRQL).
U	--	Value is a non-detected result as reported by the laboratory.
UJ	--	Non-detected result is considered estimated due to exceedance of technical quality control criteria.
UL	--	Non-detected result is considered biased low due to exceedance of technical quality control criteria.
UR	--	Non-detected result is considered unusable due to exceedance of technical quality control criteria.
L	--	Positive result is considered biased low due to exceedance of technical quality control criteria.
K	--	Positive result is considered biased high due to exceedance of technical quality control criteria.
B	--	Positive result is considered to be an artifact of blank contamination, and should not be considered present.
R	--	Positive result is considered unusable due to exceedance of technical quality control criteria.
n/a	--	No result is available/applicable for this parameter in this sample.
ND	--	Value is a non-detected result as reported by the laboratory. Detection limit not available.

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	5340	n/a	n/a	n/a	n/a	n/a	6420	7950 J
Antimony	1.9 L	n/a	n/a	n/a	n/a	n/a	0.32 UL	6.7 U
Arsenic	3.7 K	n/a	n/a	n/a	n/a	n/a	1.8 K	3 B
Barium	129	n/a	n/a	n/a	n/a	n/a	136	78.3
Beryllium	0.48 B	n/a	n/a	n/a	n/a	n/a	1	0.78
Cadmium	1.1 UL	n/a	n/a	n/a	n/a	n/a	1 UL	1.7 K
Calcium	4560	n/a	n/a	n/a	n/a	n/a	499	5140
Chromium	18.8 K	n/a	n/a	n/a	n/a	n/a	6.4 K	11.9
Cobalt	6	n/a	n/a	n/a	n/a	n/a	15	6.6
Copper	31.7	n/a	n/a	n/a	n/a	n/a	18.7	14.5 J
Iron	11100	n/a	n/a	n/a	n/a	n/a	9330	10300
Lead	82.6	n/a	n/a	n/a	n/a	n/a	3.1	43.8 J
Magnesium	2040	n/a	n/a	n/a	n/a	n/a	1410	2980
Manganese	328 K	n/a	n/a	n/a	n/a	n/a	1190 K	522
Mercury	0.13 U	n/a	n/a	n/a	n/a	n/a	0.12 U	0.04 U
Nickel	10	n/a	n/a	n/a	n/a	n/a	16.8	8.2 L
Potassium	540	n/a	n/a	n/a	n/a	n/a	414	591
Selenium	0.78 K	n/a	n/a	n/a	n/a	n/a	0.34 U	0.48 UJ
Silver	1.5 L	n/a	n/a	n/a	n/a	n/a	0.7 UL	0.64 U
Sodium	313	n/a	n/a	n/a	n/a	n/a	104	112
Thallium	0.72 U	n/a	n/a	n/a	n/a	n/a	0.65 U	0.48 U
Vanadium	25.9	n/a	n/a	n/a	n/a	n/a	13.2	16.4
Zinc	107 J	n/a	n/a	n/a	n/a	n/a	17.1 J	89.8 J

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 UJ
1,2-Dichlorobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
1,3-Dichlorobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
1,4-Dichlorobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2,4,5-Trichlorophenol	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
2,4,6-Trichlorophenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2,4-Dichlorophenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2,4-Dimethylphenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2,4-Dinitrophenol	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 UJ
2,4-Dinitrotoluene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2,6-Dinitrotoluene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2-Chloronaphthalene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2-Chlorophenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2-Methylnaphthalene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2-Methylphenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
2-Nitroaniline	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
2-Nitrophenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
3,3'-Dichlorobenzidine	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
3-Nitroaniline	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
4,6-Dinitro-2-methylphenol	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
4-Chloro-3-methylphenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
4-Chloroaniline	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 UJ
4-Chlorophenyl Phenyl Ether	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
4-Methylphenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
4-Nitroaniline	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
4-Nitrophenol	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
Acenaphthene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	170 J
Acenaphthylene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Anthracene	98 J	n/a	410 U	400 U	380 U	350 U	390 U	470
Benzo(a)anthracene	620	n/a	410 U	400 U	380 U	350 U	390 U	1100
Benzo(a)pyrene	640	n/a	410 U	400 U	380 U	350 U	390 U	1000
Benzo(b)fluoranthene	710	n/a	410 U	400 U	380 U	350 U	390 U	1500
Benzo(g,h,i)perylene	140 J	n/a	410 U	400 U	380 U	350 U	390 U	760
Benzo(k)fluoranthene	510	n/a	410 U	400 U	380 U	350 U	390 U	460
Bis(2-chloroethoxy)methane	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Bis(2-chloroethyl)ether	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Bis(2-ethylhexyl)phthalate	430 U	n/a	410 U	800	380 U	350 U	390 U	140 B
Butylbenzylphthalate	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Carbazole	430 U	n/a	410 U	400 U	380 U	350 U	390 U	170 J
Chrysene	700	n/a	42 J	400 U	380 U	350 U	390 U	1100
Di-n-butylphthalate	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Di-n-octylphthalate	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Dibenz(a,h)anthracene	80 J	n/a	410 U	400 U	380 U	350 U	390 U	400 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	430 U	n/a	410 U	400 U	380 U	350 U	390 U	88 J
Diethylphthalate	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Dimethylphthalate	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Fluoranthene	1100	n/a	68 J	400 U	380 U	350 U	390 U	1600
Fluorene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	210 J
Hexachlorobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Hexachlorobutadiene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Hexachlorocyclopentadiene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Hexachloroethane	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Indeno(1,2,3-cd)pyrene	320 J	n/a	410 U	400 U	380 U	350 U	390 U	760
Isophorone	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
N-Nitroso-di-n-propylamine	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 UJ
N-Nitrosodiphenylamine (1)	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Naphthalene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	51 J
Nitrobenzene	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Pentachlorophenol	1100 U	n/a	1000 U	1000 U	950 U	890 U	970 U	970 U
Phenanthrene	430	n/a	410 U	400 U	380 U	350 U	390 U	1200
Phenol	430 U	n/a	410 U	400 U	380 U	350 U	390 U	400 U
Pyrene	980	n/a	67 J	400 U	380 U	350 U	390 U	1500
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,1,2,2-Tetrachloroethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,1,2-Trichloroethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,1-Dichloroethene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,2-Dichloroethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,2-Dichloroethene (Total)	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
1,2-Dichloropropane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
2-Butanone	26 UJ	22 UJ	21 U	23 U	10 B	n/a	4.5 J	20 J
2-Hexanone	26 UJ	22 UJ	21 U	23 U	22 U	n/a	20 U	12 UJ
4-Methyl-2-pentanone	26 UJ	22 UJ	21 U	23 U	22 U	n/a	20 U	12 UJ
Acetone	31 B	16 B	15 B	23 B	40 B	n/a	18 B	100 B
Benzene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Bromodichloromethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Bromoform	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Bromomethane	13 UJ	11 UJ	10 U	12 U	11 UR	n/a	10 U	12 UJ
Carbon Disulfide	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Carbon Tetrachloride	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Chlorobenzene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Chloroethane	13 UJ	11 UJ	10 U	12 U	11 U	n/a	10 U	12 UJ
Chloroform	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Chloromethane	13 UJ	11 UJ	10 U	12 U	11 U	n/a	10 U	12 UJ
Dibromochloromethane	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Ethylbenzene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Methylene Chloride	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 UJ	n/a	1.5 J	18 B
Styrene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Tetrachloroethene	6.5 UJ	5.6 UJ	3.6 J	5.9 U	5.5 U	n/a	5.1 U	12 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	3.7 B	2.2 B	5.2 U	1.7 B	5.5 U	n/a	1.6 B	2 J
Trichloroethene	1.6 J	2.3 J	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
Vinyl Chloride	13 UJ	11 UJ	10 U	12 U	11 U	n/a	10 U	12 UJ
Xylene (Total)	2.8 J	1.3 J	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
cis-1,3-Dichloropropene	6.5 UJ	5.6 UJ	5.2. U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
trans-1,3-Dichloropropene	6.5 UJ	5.6 UJ	5.2 U	5.9 U	5.5 U	n/a	5.1 U	12 UJ
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
4,4'-DDE	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
4,4'-DDT	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Aldrin	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Alpha-BHC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Alpha-Chlordane	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Aroclor-1016	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Aroclor-1221	87 U	n/a	n/a	n/a	n/a	n/a	78 U	81 U
Aroclor-1232	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Aroclor-1242	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Aroclor-1248	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Aroclor-1254	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Aroclor-1260	43 U	n/a	n/a	n/a	n/a	n/a	39 U	40 U
Beta-BHC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Delta-BHC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Dieldrin	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	S2-SB71-08	S2-SB71-08-DUP	S2-SB72-06	S2-SB73-06	S2-SB74-06	S2-SB75-06	S2-SB76-06	SB-02-03
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Endosulfan II	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Endosulfan Sulfate	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Endrin	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Endrin Aldehyde	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Endrin Ketone	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4 U
Gamma-BHC (Lindane)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.5 J
Gamma-Chlordane	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Heptachlor	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Heptachlor Epoxide	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.1 U
Methoxychlor	n/a	n/a	n/a	n/a	n/a	n/a	n/a	21 U
Toxaphene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	210 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	9280 J	6530 J	6720 J	15700	n/a	5490	12900	9930
Antimony	10.1 U	7.6 U	8 U	11 UL	8.2 BN	79.3 L	8.1 UL	8.1 UL
Arsenic	2.5 B	1.5 B	2.1 B	3.8 J	n/a	5.2 K	19.6	4.5
Barium	21.6	27.2	49.6	105	n/a	188	66.7	90.4
Beryllium	0.46	0.28	0.5	1.3 B	n/a	0.41	1.4	0.89
Cadmium	0.72 U	0.54 U	0.57 U	3.8 B	43	36.7	0.78 K	1.2 K
Calcium	4200	2080	3260	643 B	n/a	49800	13200	4060
Chromium	6.1	4 K	8.3	15.7	n/a	3810	40.8	25
Cobalt	3.5	4.5	8.5	7.2 B	n/a	24.8	13.1	8.2
Copper	7.9 J	4.6 J	12.2 J	10.1	515	254	30.8	19.5
Cyanide	n/a	n/a	n/a	1.8 UL	n/a	n/a	n/a	n/a
Iron	9150	4000	10100	14400	n/a	103000	31100	15400
Lead	2.5 J	1.5 J	3.3 J	96.5 J	93.2 E	53.5 L	32.3 L	63 L
Magnesium	2880	1610	2290	1720 B	n/a	3300	11100	3430
Manganese	146	324	925	718	n/a	552	499	720
Mercury	0.06 U	0.05 U	0.05 U	0.12 U	n/a	0.8	0.05 U	0.1
Nickel	3.1 L	3.6 L	5.8 L	17.1 B	n/a	19.7 L	24.9	12.9 L
Potassium	196	110	419	532 B	n/a	503	2430	763
Selenium	0.72 UJ	0.54 UJ	0.57 UJ	1 UL	n/a	0.6 U	0.58 U	0.58 U
Silver	0.96 U	0.73 U	0.76 U	2.2 U	317	156	0.78 UJ	0.77 U
Sodium	85.1 B	69.3 B	65.8 B	460 B	n/a	110	195	82.7
Thallium	0.72 U	0.54 U	0.57 U	0.41 U	n/a	0.73 B	0.77 B	0.58 U
Vanadium	11.9	5.7	13.7	27.6	n/a	13.3 L	48.5	25.8
Zinc	6.8 J	5.2 J	8.6 J	60	476	155	87.5	61.8

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	n/a	360 UJ	n/a	400 U	n/a	580 U	n/a	n/a
1,2-Dichlorobenzene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
1,3-Dichlorobenzene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
1,4-Dichlorobenzene	n/a	360 U	n/a	68 J	n/a	580 U	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	n/a	360 UJ	n/a	n/a	n/a	580 U	n/a	n/a
2,4,5-Trichlorophenol	n/a	870 U	n/a	960 U	n/a	1400 U	n/a	n/a
2,4,6-Trichlorophenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2,4-Dichlorophenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2,4-Dimethylphenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2,4-Dinitrophenol	n/a	870 UJ	n/a	960 U	n/a	1400 U	n/a	n/a
2,4-Dinitrotoluene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2,6-Dinitrotoluene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2-Chloronaphthalene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2-Chlorophenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2-Methylnaphthalene	n/a	360 U	n/a	110 J	n/a	580 U	n/a	n/a
2-Methylphenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
2-Nitroaniline	n/a	870 U	n/a	960 U	n/a	1400 U	n/a	n/a
2-Nitrophenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
3,3'-Dichlorobenzidine	n/a	360 UJ	n/a	400	n/a	580 U	n/a	n/a
3-Nitroaniline	n/a	870 UJ	n/a	960 U	n/a	1400 U	n/a	n/a
4,6-Dinitro-2-methylphenol	n/a	870 U	n/a	960 U	n/a	1400 U	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
4-Chloro-3-methylphenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
4-Chloroaniline	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
4-Chlorophenyl Phenyl Ether	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
4-Methylphenol	n/a	360 U	n/a	n/a	n/a	580 U	n/a	n/a
4-Nitroaniline	n/a	870 UJ	n/a	960 U	n/a	1400 U	n/a	n/a
4-Nitrophenol	n/a	870 U	n/a	960 U	n/a	1400 U	n/a	n/a
Acenaphthene	n/a	360 U	n/a	390 J	n/a	580 U	n/a	n/a
Acenaphthylene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Anthracene	n/a	360 U	n/a	570 J	n/a	580 U	n/a	n/a
Benzo(a)anthracene	n/a	360 U	n/a	1500	n/a	120 J	n/a	n/a
Benzo(a)pyrene	n/a	360 U	n/a	1390	n/a	94 J	n/a	n/a
Benzo(b)fluoranthene	n/a	360 U	n/a	1900	n/a	120 J	n/a	n/a
Benzo(g,h,i)perylene	n/a	360 U	n/a	745 J	n/a	66 J	n/a	n/a
Benzo(k)fluoranthene	n/a	360 U	n/a	965	n/a	580 U	n/a	n/a
Bis(2-chloroethoxy)methane	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Bis(2-chloroethyl)ether	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Bis(2-ethylhexyl)phthalate	n/a	980 J	n/a	130 B	n/a	820 B	n/a	n/a
Butylbenzylphthalate	n/a	360 U	n/a	55	n/a	580 U	n/a	n/a
Carbazole	n/a	360 U	n/a	220 J	n/a	580 U	n/a	n/a
Chrysene	n/a	360 U	n/a	1510 J	n/a	70 J	n/a	n/a
Di-n-butylphthalate	n/a	360 U	n/a	77 J	n/a	64 J	n/a	n/a
Di-n-octylphthalate	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Dibenz(a,h)anthracene	n/a	360 U	n/a	145 J	n/a	580 U	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	n/a	360 U	n/a	169 J	n/a	580 U	n/a	n/a
Diethylphthalate	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Dimethylphthalate	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Fluoranthene	n/a	360 U	n/a	2200	n/a	260 J	n/a	n/a
Fluorene	n/a	360 U	n/a	305 J	n/a	580 U	n/a	n/a
Hexachlorobenzene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Hexachlorobutadiene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Hexachlorocyclopentadiene	n/a	360 UJ	n/a	400 U	n/a	580 U	n/a	n/a
Hexachloroethane	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Indeno(1,2,3-cd)pyrene	n/a	360 U	n/a	810	n/a	580 U	n/a	n/a
Isophorone	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
N-Nitroso-di-n-propylamine	n/a	360 UJ	n/a	400 U	n/a	580 U	n/a	n/a
N-Nitrosodiphenylamine (1)	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Naphthalene	n/a	360 U	n/a	170 J	n/a	580 U	n/a	n/a
Nitrobenzene	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Pentachlorophenol	n/a	870 U	n/a	960 U	n/a	62 J	n/a	n/a
Phenanthrene	n/a	360 U	n/a	2350	n/a	120 J	n/a	n/a
Phenol	n/a	360 U	n/a	400 U	n/a	580 U	n/a	n/a
Pyrene	n/a	42 J	n/a	2700 J	n/a	170 J	n/a	n/a
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,1,2,2-Tetrachloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,1,2-Trichloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,1-Dichloroethene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,2-Dichloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,2-Dichloroethene (Total)	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
1,2-Dichloropropane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
2-Butanone	12 U	12 U	11 U	11 U	n/a	12 U	1600 B	27 U
2-Hexanone	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
4-Methyl-2-pentanone	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Acetone	12 U	12 U	11 U	11 U	n/a	89 J	1400 B	170
Benzene	12 U	12 U	11 U	1 J	n/a	12 U	1500 U	27 U
Bromodichloromethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Bromoform	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Bromomethane	12 U	12 U	11 U	11 U	n/a	12 U	360 J	27 U
Carbon Disulfide	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Carbon Tetrachloride	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Chlorobenzene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Chloroethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Chloroform	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Chloromethane	12 U	12 U	11 U	11 U	n/a	12 U	810 J	27 U
Dibromochloromethane	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Ethylbenzene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Methylene Chloride	18 B	12 B	10 B	11 U	n/a	8 B	1300 B	19 B
Styrene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Tetrachloroethene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Trichloroethene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Vinyl Chloride	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
Xylene (Total)	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
cis-1,3-Dichloropropene	12 U	12 U	11 U	11 U	n/a	12 U	1500 U	27 U
trans-1,3-Dichloropropene	12 U	12 U	11 U	97.8 J	n/a	12 U	1500 U	27 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	n/a	3.6 U	n/a	40 U	n/a	45 J	3.6 UJ	n/a
4,4'-DDE	n/a	3.6 U	n/a	40 U	n/a	11 J	3.6 UJ	n/a
4,4'-DDT	n/a	3.6 U	n/a	40 U	n/a	5.8 U	3.6 UJ	n/a
Aldrin	n/a	1.8 U	n/a	20 U	n/a	3.6	1.9 UJ	n/a
Alpha-BHC	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Alpha-Chlordane	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Aroclor-1016	n/a	36 U	n/a	400 U	n/a	58 U	36 UJ	n/a
Aroclor-1221	n/a	73 U	n/a	810 U	n/a	120 U	73 UJ	n/a
Aroclor-1232	n/a	36 U	n/a	400 U	n/a	58 U	36 UJ	n/a
Aroclor-1242	n/a	36 U	n/a	400 U	n/a	58 U	36 UJ	n/a
Aroclor-1248	n/a	36 U	n/a	400 U	n/a	58 U	36 UJ	n/a
Aroclor-1254	n/a	36 U	n/a	1150 JP	n/a	58 U	36 UJ	n/a
Aroclor-1260	n/a	36 U	n/a	1600 JP	n/a	550	36 UJ	n/a
Beta-BHC	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Delta-BHC	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Dieldrin	n/a	3.6 U	n/a	40 U	n/a	5.8 U	3.6 UJ	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-04	SB-02-05	SB-02-06	SB-02-09	SB-02-101298	SB-02-11	SB-02-12	SB-02-13
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Endosulfan II	n/a	3.6 U	n/a	40 R	n/a	5.8 U	3.6 UJ	n/a
Endosulfan Sulfate	n/a	3.6 U	n/a	40 U	n/a	5.8 U	3.6 UJ	n/a
Endrin	n/a	3.6 U	n/a	40 U	n/a	5.8 U	18 J	n/a
Endrin Aldehyde	n/a	3.6 U	n/a	40 U	n/a	5.8 U	3.6 UJ	n/a
Endrin Ketone	n/a	3.6 U	n/a	40 U	n/a	5.8 U	3.6 UJ	n/a
Gamma-BHC (Lindane)	n/a	1.8 U	n/a	20 UL	n/a	3 U	1.9 UJ	n/a
Gamma-Chlordane	n/a	1.8 U	n/a	20 U	n/a	3.4 J	1.9 UJ	n/a
Heptachlor	n/a	1.8 U	n/a	20 U	n/a	3 U	1.9 UJ	n/a
Heptachlor Epoxide	n/a	1.8 U	n/a	20 U	n/a	3.5 J	1.9 UJ	n/a
Methoxychlor	n/a	18 U	n/a	200 U	n/a	30 U	19 UJ	n/a
Toxaphene	n/a	180 U	n/a	2000 U	n/a	300 U	190 UJ	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	8040	7360	8760	14300	5210	13100	7150	11100
Antimony	8.2 UR	7.6 UR	8.7 UR	9.2 UR	11.3 UR	9.4 UR	90.5 L	11.9 L
Arsenic	1.4	1.4	3	4.9	3.5	3.1	3.9	7.3
Barium	32.1	21.6	53.5	61.7	97.2	27.6	147	229
Beryllium	0.4 L	0.33 L	0.76 L	0.74 L	0.32	0.42	0.37	0.65
Cadmium	0.36 UL	0.33 UL	0.38 UL	0.4 UL	0.49 U	0.41 U	17.9	5.9
Calcium	679	696	2410	6190	74000	1720	40100	13500
Chromium	4.8	4.3	11	19	12.4	13.3	3840	54.4
Cobalt	15.8 L	5.5 L	5.1 L	8 L	5 L	6.4	23.7 L	6.5
Copper	16.4	16.1	9.4	12	47.2	13.7	308	211
Cyanide	0.54 U	0.56 U	0.59 U	0.61 U	0.67 U	0.59 U	20.4	0.65 U
Iron	5840 J	4940 J	10300 J	19200 J	8580	13500	99400	22100
Lead	4.8	3	11.8	11.7	56.2 L	8.1 L	40.9 L	776 L
Magnesium	791	749	2350	3940	2190	1840	2110	2820
Manganese	1150	515	403	326	294	241	360	369
Mercury	0.05 U	0.05 U	0.05 U	0.06	0.06 U	0.05 U	0.77	0.98
Nickel	3.3 L	4.3 L	9.1 L	10.5 L	9.7	11.3	18.3	29.3
Potassium	275	208	511	1000	706	599	329	593
Selenium	0.71 UL	0.66 UL	0.75 UL	0.8 UL	0.99 U	0.82 U	0.83 U	0.81 U
Silver	0.89 UL	0.83 UL	0.94 UL	1 UL	2.1 L	1 UL	168	17.1
Sodium	54.7 B	62.9	70.5	90.2	93 B	87.9 B	43.9 B	191
Thallium	0.71 U	0.66 U	0.75 U	0.8 U	0.99 UL	0.82 U	0.83 UL	0.81 U
Vanadium	7.4	6.3	16.6	30.1	16.8 K	23.4	26.5 K	45.6
Zinc	7.2 J	5.7 J	22.7 J	34.9 J	117	21.9	143	1020

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
1,2-Dichlorobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
1,3-Dichlorobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
1,4-Dichlorobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2,4,5-Trichlorophenol	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
2,4,6-Trichlorophenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2,4-Dichlorophenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2,4-Dimethylphenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2,4-Dinitrophenol	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
2,4-Dinitrotoluene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2,6-Dinitrotoluene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2-Chloronaphthalene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2-Chlorophenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2-Methylnaphthalene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2-Methylphenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
2-Nitroaniline	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
2-Nitrophenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
3,3'-Dichlorobenzidine	380 UJ	370 UJ	n/a	400 UJ	430 UJ	n/a	n/a	n/a
3-Nitroaniline	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
4,6-Dinitro-2-methylphenol	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
4-Chloro-3-methylphenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
4-Chloroaniline	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
4-Chlorophenyl Phenyl Ether	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
4-Methylphenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
4-Nitroaniline	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
4-Nitrophenol	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
Acenaphthene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Acenaphthylene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Anthracene	380 U	370 U	n/a	100 J	430 U	n/a	n/a	n/a
Benzo(a)anthracene	380 U	370 U	n/a	230 J	430 U	n/a	n/a	n/a
Benzo(a)pyrene	380 U	370 U	n/a	190 J	430 U	n/a	n/a	n/a
Benzo(b)fluoranthene	380 U	370 U	n/a	230 J	430 U	n/a	n/a	n/a
Benzo(g,h,i)perylene	380 U	370 U	n/a	110 J	430 U	n/a	n/a	n/a
Benzo(k)fluoranthene	380 U	370 U	n/a	54 J	430 U	n/a	n/a	n/a
Bis(2-chloroethoxy)methane	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Bis(2-chloroethyl)ether	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Bis(2-ethylhexyl)phthalate	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Butylbenzylphthalate	91 J	53 J	n/a	400 U	430 U	n/a	n/a	n/a
Carbazole	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Chrysene	380 U	370 U	n/a	200 J	430 U	n/a	n/a	n/a
Di-n-butylphthalate	380 U	370 U	n/a	400 UJ	430 U	n/a	n/a	n/a
Di-n-octylphthalate	380 UJ	370 UJ	n/a	400 U	430 UJ	n/a	n/a	n/a
Dibenz(a,h)anthracene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Diethylphthalate	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Dimethylphthalate	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Fluoranthene	380 U	370 U	n/a	360 J	430 U	n/a	n/a	n/a
Fluorene	380 U	370 U	n/a	69 J	430 U	n/a	n/a	n/a
Hexachlorobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Hexachlorobutadiene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Hexachlorocyclopentadiene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Hexachloroethane	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	380 U	370 U	n/a	100 J	430 U	n/a	n/a	n/a
Isophorone	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
N-Nitroso-di-n-propylamine	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
N-Nitrosodiphenylamine (1)	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Naphthalene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Nitrobenzene	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Pentachlorophenol	920 U	910 U	n/a	970 U	1000 U	n/a	n/a	n/a
Phenanthrene	380 U	370 U	n/a	380 J	430 U	n/a	n/a	n/a
Phenol	380 U	370 U	n/a	400 U	430 U	n/a	n/a	n/a
Pyrene	380 U	370 U	n/a	420	430 U	n/a	n/a	n/a
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
1,1,2,2-Tetrachloroethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
1,1,2-Trichloroethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
1,1-Dichloroethene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
1,2-Dichloroethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
1,2-Dichloroethene (Total)	11 U	120 UJ	60	12 U	13 U	12 U	12 U	1500 U
1,2-Dichloropropane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
2-Butanone	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
2-Hexanone	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
4-Methyl-2-pentanone	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
Acetone	93 B	820 B	740 B	70 B	12 B	15 B	11 B	1500 U
Benzene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Bromodichloromethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Bromoform	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Bromomethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	750 B
Carbon Disulfide	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Carbon Tetrachloride	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Chlorobenzene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
Chloroethane	11 UJ	120 UJ	60 UJ	12 UJ	13 UJ	12 UJ	12 U	1500 U
Chloroform	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Chloromethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	480 B
Dibromochloromethane	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Ethylbenzene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
Methylene Chloride	3 B	27 B	17 B	5 B	14 B	12 B	8 B	450 B
Styrene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
Tetrachloroethene	22	36 J	60 U	12 U	2 J	12 U	12 UJ	1500 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
Trichloroethene	11 U	120 UJ	60 U	4 J	13 U	12 U	2 J	1500 U
Vinyl Chloride	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
Xylene (Total)	11 U	120 UJ	60 U	12 U	13 U	12 U	12 UJ	1500 U
cis-1,3-Dichloropropene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
trans-1,3-Dichloropropene	11 U	120 UJ	60 U	12 U	13 U	12 U	12 U	1500 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
4,4'-DDE	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
4,4'-DDT	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Aldrin	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Alpha-BHC	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Alpha-Chlordane	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Aroclor-1016	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Aroclor-1221	77 U	76 U	79 U	81 U	88 U	n/a	n/a	n/a
Aroclor-1232	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Aroclor-1242	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Aroclor-1248	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Aroclor-1254	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Aroclor-1260	38 U	37 U	39 U	40 U	43 U	n/a	n/a	n/a
Beta-BHC	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Delta-BHC	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Dieldrin	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-16	SB-02-16-DUP	SB-02-17	SB-02-18	SB-02-19	SB-02-19A	SB-02-20	SB-02-21
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Endosulfan II	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Endosulfan Sulfate	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Endrin	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Endrin Aldehyde	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Endrin Ketone	3.8 U	3.7 U	3.9 U	4 U	4.3 U	n/a	n/a	n/a
Gamma-BHC (Lindane)	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Gamma-Chlordane	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Heptachlor	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Heptachlor Epoxide	2 U	1.9 U	2 U	2.1 U	2.2 U	n/a	n/a	n/a
Methoxychlor	20 U	19 U	20 U	21 U	22 U	n/a	n/a	n/a
Toxaphene	200 U	190 U	200 U	210 U	220 U	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	14900	16900	12300	17000	17500	15200	18500	23200
Antimony	8.2 UR	13.3 L	10.2 UR	9.7 UR	7.7 UR	10.4 UR	14.2 J	15.9 J
Arsenic	4.8	1.6	1.6	5.5 L	6.7 L	3.6 L	6.3 L	16.7 L
Barium	44.5	92.6	75.3	85.1	37.9	79.2	62.8	417
Beryllium	0.72	1.7	0.96	1	0.54	1.3	0.72	0.81
Cadmium	0.36 U	0.4 U	0.45 U	0.42 U	0.33 U	0.45 U	0.48 B	293
Calcium	1160	1150	725	1080	437	387	565	11400
Chromium	28.1	15.7	11.2	23.1 K	20.6 K	12.5 K	384 K	166 K
Chromium, Hexavalent	n/a	n/a	n/a	n/a	3.59 L	n/a	n/a	1 UR
Cobalt	6.6	11.3	11	11.7	7.5	13.7	7.6	12.7
Copper	15.3	21.6	19.8	10.7 J	13.5 J	6.5 J	14 J	933 J
Cyanide	0.6 U	0.64 U	0.62 U	0.74 U	0.61 U	0.62 U	0.6 U	0.63 U
Iron	20500	18200	11100	21900 J	21800 J	11500 J	20800	64400 J
Lead	9.6 L	6.8 L	5.2 L	13 B	9.5 B	9.5 B	19.2 B	716 J
Magnesium	2400	5050	2320	2320	2450	1470	2360	3360
Manganese	265	368	615	610	220	844	388	1240
Mercury	0.08	0.06 U	0.05 U	0.07 U	0.07	0.05 U	0.06 U	0.51
Nickel	12.4	35.2	14.9	13.1 B	13.5 B	10.9 B	12.2 B	111 L
Potassium	984	1840	917	548	791	316	852	727
Selenium	0.72 U	0.8 U	0.89 U	0.85 UL	0.67 UL	0.9 UL	0.81 UL	0.84 UL
Silver	0.9 UL	1 UL	1.1 UL	1.1 UJ	0.84 UJ	1.1 UJ	1 UJ	9.6 J
Sodium	52.1 B	71.5 B	66.1 B	63.4 B	56.5 B	81.4 B	57.4 B	209
Thallium	0.72 U	0.8 U	0.89 U	0.85 UL	0.67 UL	0.9 UL	0.81 UL	0.84 UL
Vanadium	38.9	26.3	17.6	41.7	38	21	37.2	48.5

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Zinc	41	35.7	16.7	35.6 J	30 J	20.9 J	470 J	2270 J
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
1,2-Dichlorobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
1,3-Dichlorobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
1,4-Dichlorobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2,4,5-Trichlorophenol	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
2,4,6-Trichlorophenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2,4-Dichlorophenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2,4-Dimethylphenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2,4-Dinitrophenol	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
2,4-Dinitrotoluene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2,6-Dinitrotoluene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2-Chloronaphthalene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2-Chlorophenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2-Methylnaphthalene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2-Methylphenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
2-Nitroaniline	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
2-Nitrophenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
3,3'-Dichlorobenzidine	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
3-Nitroaniline	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,6-Dinitro-2-methylphenol	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
4-Bromophenyl-phenylether	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
4-Chloro-3-methylphenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
4-Chloroaniline	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
4-Chlorophenyl Phenyl Ether	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
4-Methylphenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
4-Nitroaniline	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
4-Nitrophenol	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
Acenaphthene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Acenaphthylene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Anthracene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	370 J
Benzo(a)anthracene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1800 J
Benzo(a)pyrene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1400 J
Benzo(b)fluoranthene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1400 J
Benzo(g,h,i)perylene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	670 J
Benzo(k)fluoranthene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1100 J
Bis(2-chloroethoxy)methane	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Bis(2-chloroethyl)ether	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Bis(2-ethylhexyl)phthalate	n/a	n/a	n/a	n/a	200 B	n/a	n/a	2100 U
Butylbenzylphthalate	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Carbazole	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Chrysene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1700 J
Di-n-butylphthalate	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Di-n-octylphthalate	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenz(a,h)anthracene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Dibenzofuran	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Diethylphthalate	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Dimethylphthalate	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Fluoranthene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	3200
Fluorene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Hexachlorobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Hexachlorobutadiene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Hexachlorocyclopentadiene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Hexachloroethane	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Indeno(1,2,3-cd)pyrene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	720 J
Isophorone	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
N-Nitroso-di-n-propylamine	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
N-Nitrosodiphenylamine (1)	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Naphthalene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Nitrobenzene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Pentachlorophenol	n/a	n/a	n/a	n/a	990 U	n/a	n/a	5000 U
Phenanthrene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	1100 J
Phenol	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2100 U
Pyrene	n/a	n/a	n/a	n/a	410 U	n/a	n/a	2500
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,1,2,2-Tetrachloroethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,2-Trichloroethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,1-Dichloroethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,1-Dichloroethene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,2-Dichloroethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,2-Dichloroethene (Total)	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
1,2-Dichloropropane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
2-Butanone	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
2-Hexanone	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
4-Methyl-2-pentanone	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
Acetone	12 U	11 B	4 B	n/a	60	n/a	n/a	15 B
Benzene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Bromodichloromethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Bromoform	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Bromomethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Carbon Disulfide	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Carbon Tetrachloride	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Chlorobenzene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
Chloroethane	12 UJ	12 UJ	12 UJ	n/a	11 UJ	n/a	n/a	13 UJ
Chloroform	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Chloromethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Dibromochloromethane	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Ethylbenzene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
Methylene Chloride	8 B	8 B	2 B	n/a	8 B	n/a	n/a	3 B
Styrene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Tetrachloroethene	2 J	2 J	12 U	n/a	11 U	n/a	n/a	13 UJ
Toluene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
Trichloroethene	2 J	12 U	12 U	n/a	11 U	n/a	n/a	5 J
Vinyl Chloride	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
Xylene (Total)	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 UJ
cis-1,3-Dichloropropene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
trans-1,3-Dichloropropene	12 U	12 U	12 U	n/a	11 U	n/a	n/a	13 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	4.1 U
4,4'-DDE	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	4.1 U
4,4'-DDT	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	16 J
Aldrin	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Alpha-BHC	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Alpha-Chlordane	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	5.9
Aroclor-1016	41 U	n/a	n/a	n/a	41 U	n/a	n/a	41 U
Aroclor-1221	83 U	n/a	n/a	n/a	83 U	n/a	n/a	83 U
Aroclor-1232	41 U	n/a	n/a	n/a	41 U	n/a	n/a	41 U
Aroclor-1242	41 U	n/a	n/a	n/a	41 U	n/a	n/a	41 U
Aroclor-1248	41 U	n/a	n/a	n/a	41 U	n/a	n/a	110 J
Aroclor-1254	41 U	n/a	n/a	n/a	41 U	n/a	n/a	41 U
Aroclor-1260	41 U	n/a	n/a	n/a	41 U	n/a	n/a	300 J
Beta-BHC	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Delta-BHC	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-22	SB-02-24	SB-02-24-DUP	SB-02-28	SB-02-29	SB-02-30	SB-02-31A	SB-02-32
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dieldrin	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	4.3 J
Endosulfan I	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Endosulfan II	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	8.5 J
Endosulfan Sulfate	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	4.1 U
Endrin	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	20 J
Endrin Aldehyde	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	4.1 U
Endrin Ketone	4.1 U	n/a	n/a	n/a	4.1 U	n/a	n/a	5.5 J
Gamma-BHC (Lindane)	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Gamma-Chlordane	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Heptachlor	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Heptachlor Epoxide	2.1 U	n/a	n/a	n/a	2.1 U	n/a	n/a	2.1 U
Methoxychlor	21 U	n/a	n/a	n/a	21 U	n/a	n/a	21 U
Toxaphene	210 U	n/a	n/a	n/a	210 U	n/a	n/a	210 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	13200	14900	14600	10900	11100	8730	10200	14100
Antimony	20.8 J	13.7 J	10.4 UR	9.5 UR	9.1 UR	8.4 U	7.9 U	9.4 U
Arsenic	5.8 L	6 L	5.1 L	2.4 L	3.1 L	1.8	9	9.7
Barium	719	419	89.5	118	107	68.8	45	105
Beryllium	1.6	1.1	0.9	1.4	0.82	0.63	0.92	0.92
Cadmium	15.3	9.8	2.5 B	0.41 U	0.65 B	0.37 U	0.34 U	1.9 B
Calcium	42100	39800	14100	4040	7760	1040	47700	3560
Chromium	948 K	265 K	38.6 K	20.8 K	20.3 K	9.6	25.2	32.2
Chromium, Hexavalent	n/a	n/a	n/a	1.61 L	0.95 L	0.93 UR	n/a	1 UR
Cobalt	21	10.7	9.6	11.1	9.3	12.4	8.9	10.1
Copper	712 J	441 J	35.7 J	15.4 J	22.8 J	7.2	26.7	44.5
Cyanide	0.85	2.7	0.62 U	0.6 U	0.56 U	0.56 U	0.53 U	0.59 U
Iron	44500 J	22900 J	21300 J	20000 J	18200 J	22600	14000	16700
Lead	508 J	307 J	94.1 J	24.3 B	43.9 B	11.6	31.9	136
Magnesium	5530	8160	3010	4770	5200	972	29900	2410
Manganese	1760	592	438	275	462	572	365	525
Mercury	0.28	0.64	0.09	0.05 U	0.05 U	0.05 U	0.05 U	0.1
Nickel	113 L	80.8 L	16.8 B	18.2 B	18.3 B	6.9 L	11.8 J	21.3
Potassium	813	939	970	1830	1150	345 B	1900	715 B
Selenium	0.83 UL	0.84 UL	0.9 UL	0.83 UL	0.79 UL	0.73 U	0.69 U	0.82 U
Silver	46.4 J	15.7 J	1.1 UJ	1 UJ	0.99 UJ	0.92 UL	0.86 UL	1 UL
Sodium	391	344	163 B	110 B	132 B	70	233	84.2
Thallium	0.83 UL	0.84 UL	0.9 UL	0.83 UL	0.79 UL	0.73 UL	0.69 UL	0.82 UL
Vanadium	48.8	51.5	31.9	28.2	33.4	15.1	39.5 K	73.3

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Zinc	2360 J	1020 J	126 J	54.3 J	80.6 J	39.9	74.5	119
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
1,2-Dichlorobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
1,3-Dichlorobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
1,4-Dichlorobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2,4,5-Trichlorophenol	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
2,4,6-Trichlorophenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2,4-Dichlorophenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2,4-Dimethylphenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2,4-Dinitrophenol	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
2,4-Dinitrotoluene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2,6-Dinitrotoluene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2-Chloronaphthalene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2-Chlorophenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2-Methylnaphthalene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	360 J
2-Methylphenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
2-Nitroaniline	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
2-Nitrophenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
3,3'-Dichlorobenzidine	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
3-Nitroaniline	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,6-Dinitro-2-methylphenol	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
4-Bromophenyl-phenylether	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
4-Chloro-3-methylphenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
4-Chloroaniline	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
4-Chlorophenyl Phenyl Ether	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
4-Methylphenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
4-Nitroaniline	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
4-Nitrophenol	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
Acenaphthene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	380 J
Acenaphthylene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Anthracene	1900 U	230 J	n/a	n/a	n/a	n/a	n/a	610
Benzo(a)anthracene	940 J	1200 J	n/a	n/a	n/a	n/a	n/a	990
Benzo(a)pyrene	1100 J	1200 J	n/a	n/a	n/a	n/a	n/a	1000 J
Benzo(b)fluoranthene	1100 J	1200 J	n/a	n/a	n/a	n/a	n/a	1300 J
Benzo(g,h,i)perylene	700 J	680 J	n/a	n/a	n/a	n/a	n/a	610 J
Benzo(k)fluoranthene	580 J	680 J	n/a	n/a	n/a	n/a	n/a	380 J
Bis(2-chloroethoxy)methane	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Bis(2-chloroethyl)ether	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Bis(2-ethylhexyl)phthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	200 B
Butylbenzylphthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Carbazole	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	340 J
Chrysene	890 J	1200 J	n/a	n/a	n/a	n/a	n/a	880
Di-n-butylphthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	70 B
Di-n-octylphthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenz(a,h)anthracene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	62 J
Dibenzofuran	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	370 J
Diethylphthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Dimethylphthalate	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Fluoranthene	1200 J	1800 J	n/a	n/a	n/a	n/a	n/a	1600
Fluorene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	850
Hexachlorobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Hexachlorobutadiene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Hexachlorocyclopentadiene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Hexachloroethane	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Indeno(1,2,3-cd)pyrene	630 J	620 J	n/a	n/a	n/a	n/a	n/a	600 J
Isophorone	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
N-Nitroso-di-n-propylamine	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
N-Nitrosodiphenylamine (1)	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Naphthalene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	120 J
Nitrobenzene	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Pentachlorophenol	4700 U	4700 U	n/a	n/a	n/a	n/a	n/a	1000 U
Phenanthrene	530 J	750 J	n/a	n/a	n/a	n/a	n/a	1900
Phenol	1900 U	1900 U	n/a	n/a	n/a	n/a	n/a	410 U
Pyrene	1300 J	2100	n/a	n/a	n/a	n/a	n/a	1500
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
1,1,2,2-Tetrachloroethane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,2-Trichloroethane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
1,1-Dichloroethane	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
1,1-Dichloroethene	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
1,2-Dichloroethane	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
1,2-Dichloroethene (Total)	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
1,2-Dichloropropane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
2-Butanone	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	16
2-Hexanone	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
4-Methyl-2-pentanone	n/a	n/a	n/a	12 UJ	12 UJ	110	110 U	12 U
Acetone	n/a	n/a	n/a	16 B	17 B	49	62 B	56 B
Benzene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Bromodichloromethane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Bromoform	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Bromomethane	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
Carbon Disulfide	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
Carbon Tetrachloride	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Chlorobenzene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Chloroethane	n/a	n/a	n/a	12 UJ	12 UJ	12 UJ	110 UJ	12 UJ
Chloroform	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
Chloromethane	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
Dibromochloromethane	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Ethylbenzene	n/a	n/a	n/a	12 UJ	12 UJ	6 J	13 J	3 J
Methylene Chloride	n/a	n/a	n/a	3 B	4 B	2 J	23 J	3 J
Styrene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Tetrachloroethene	n/a	n/a	n/a	12 UJ	12 UJ	3 J	110 U	12 U
Toluene	n/a	n/a	n/a	12 UJ	12 UJ	3 J	150	12 U
Trichloroethene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
Vinyl Chloride	n/a	n/a	n/a	12 UJ	12 U	12 U	110 U	12 U
Xylene (Total)	n/a	n/a	n/a	12 UJ	12 UJ	10 J	38 J	12 U
cis-1,3-Dichloropropene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
trans-1,3-Dichloropropene	n/a	n/a	n/a	12 UJ	12 UJ	12 U	110 U	12 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	7 J	8.6 J	n/a	3.9 U	n/a	n/a	n/a	4.1 U
4,4'-DDE	7.9 J	4.8 J	n/a	3.9 U	n/a	n/a	n/a	4.1 U
4,4'-DDT	50	46 J	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Aldrin	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Alpha-BHC	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Alpha-Chlordane	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Aroclor-1016	39 U	39 UJ	n/a	39 U	n/a	n/a	n/a	41 U
Aroclor-1221	78 U	79 UJ	n/a	79 U	n/a	n/a	n/a	84 U
Aroclor-1232	39 U	39 UJ	n/a	39 U	n/a	n/a	n/a	41 U
Aroclor-1242	39 U	39 UJ	n/a	39 U	n/a	n/a	n/a	41 U
Aroclor-1248	39 U	39 UJ	n/a	39 U	n/a	n/a	n/a	41 U
Aroclor-1254	39 U	39 UJ	n/a	39 U	n/a	n/a	n/a	41 U
Aroclor-1260	65	82 J	n/a	9 J	n/a	n/a	n/a	41 U
Beta-BHC	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Delta-BHC	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-33	SB-02-33-DUP	SB-02-35	SB-02-36	SB-02-36-DUP	SB-02-38	SB-02-39	SB-02-40
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dieldrin	3.9 U	3.9 UJ	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Endosulfan I	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Endosulfan II	3.9 U	3.9 UJ	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Endosulfan Sulfate	3.9 U	3.9 UJ	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Endrin	3.9 U	4.5 J	n/a	3.9 U	n/a	n/a	n/a	4.3 J
Endrin Aldehyde	3.9 U	3.9 UJ	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Endrin Ketone	3.9 U	3.9 UJ	n/a	3.9 U	n/a	n/a	n/a	4.1 U
Gamma-BHC (Lindane)	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Gamma-Chlordane	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Heptachlor	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Heptachlor Epoxide	2 U	2 UJ	n/a	2 U	n/a	n/a	n/a	2.1 U
Methoxychlor	20 U	20 UJ	n/a	20 U	n/a	n/a	n/a	21 U
Toxaphene	200 U	200 UJ	n/a	200 U	n/a	n/a	n/a	210 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
DIOXINS/FURANS								
1,2,3,4,6,7,8-HpCDD	n/a	n/a	n/a	n/a	n/a	0.06 U	0.35 U	0.17 UJ
1,2,3,4,6,7,8-HpCDF	n/a	n/a	n/a	n/a	n/a	0.1 U	0.18 U	0.058 U
1,2,3,4,7,8,9-HpCDF	n/a	n/a	n/a	n/a	n/a	0.055 U	0.068 U	0.11 U
1,2,3,4,7,8-HxCDD	n/a	n/a	n/a	n/a	n/a	0.075 U	0.06 U	0.24 UJ
1,2,3,4,7,8-HxCDF	n/a	n/a	n/a	n/a	n/a	0.062 U	0.098 U	0.012 U
1,2,3,6,7,8-HxCDD	n/a	n/a	n/a	n/a	n/a	0.08 U	0.072 U	0.062 UJ
1,2,3,6,7,8-HxCDF	n/a	n/a	n/a	n/a	n/a	0.035 U	0.13 U	0.06 U
1,2,3,7,8,9-HxCDD	n/a	n/a	n/a	n/a	n/a	0.075 U	0.12 U	0.055 UJ
1,2,3,7,8,9-HxCDF	n/a	n/a	n/a	n/a	n/a	0.045 U	0.08 U	0.068 U
1,2,3,7,8-PeCDD	n/a	n/a	n/a	n/a	n/a	0.045 U	0.028 U	0.058 U
1,2,3,7,8-PeCDF	n/a	n/a	n/a	n/a	n/a	0.021 U	0.095 U	0.017 U
2,3,4,6,7,8-HxCDF	n/a	n/a	n/a	n/a	n/a	0.12 U	0.09 U	0.014 U
2,3,4,7,8-PeCDF	n/a	n/a	n/a	n/a	n/a	0.058 U	0.032 U	0.03 U
2,3,7,8-Tetrachlorodibenzo-p **ng/g**	n/a	n/a	n/a	n/a	n/a	0.08 U	0.11 U	0.1 U
ran **ng/g**	n/a	n/a	n/a	n/a	n/a	0.0082 U	0.052 U	0.035 U
Octachlorodibenzo-p-dioxin **ng/g**	n/a	n/a	n/a	n/a	n/a	0.28 U	0.68 J	0.28 J
Octachlorodibenzofuran **ng/g**	n/a	n/a	n/a	n/a	n/a	0.11 U	0.25 U	0.062 U
Total Hpcdd	n/a	n/a	n/a	n/a	n/a	0.06 U	0.35 U	0.17 U
Total Hpcdf	n/a	n/a	n/a	n/a	n/a	0.055 U	0.068 U	0.058 U
Total Hxcdd	n/a	n/a	n/a	n/a	n/a	0.075 U	0.06 U	0.055 U
Total Hxcdf	n/a	n/a	n/a	n/a	n/a	0.035 U	0.08 U	0.012 U
Total Pecdd	n/a	n/a	n/a	n/a	n/a	0.045 U	0.028 U	0.058 U
Total Pecdf	n/a	n/a	n/a	n/a	n/a	0.021 U	0.032 U	0.017 U
Total **ug/kg**	n/a	n/a	n/a	n/a	n/a	0.08 U	0.11 U	0.1 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
DIOXINS/FURANS								
Tetrachlorodibenzofuran ug/kg	n/a	n/a	n/a	n/a	n/a	0.0082 U	0.052 U	0.035 U
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	16300	16700	19000	9750	16100	7180	16900	15900
Antimony	9.6 U	8.7 U	9.7 U	8.1 U	9.5 U	7.9 U	9.7 U	8 U
Arsenic	5.1	6.2	6.6	0.85 L	7.4	0.98	10.5	6.2
Barium	87.7	50.8	46.7	89.3	46.7	36.8	255	83.6
Beryllium	1.2	0.72	0.67	1.3	0.5	0.48	0.85	1.1
Cadmium	0.42 U	0.38 U	0.42 U	0.35 U	0.41 U	0.58 B	9.7	2.1 B
Calcium	1020	797	709	2100	815	962	8520	1690
Chromium	18.5	31.7	23.8	15.5	27.6	14.9	108	276
Chromium, Hexavalent	n/a	0.91 UR	n/a	0.92 UR	n/a	1.64	1 U	1 U
Cobalt	5.2	8.3	9	12.7	6	13.5	10.7 L	9.2
Copper	8.1	11.6	12.1	0.99 B	11	6.6	369	29.2
Cyanide	0.61 U	0.54 U	0.62 U	0.56 U	0.58 U	0.58 U	0.62 U	0.93
Iron	15500	20100	23800	24200	24100	6760	50800	18700
Lead	14.7	10.4	10.4	15.2	10.7	4.1	673	90
Magnesium	1900	2270	2480	4190	2340	919	2750	2230
Manganese	127	393	439	529	196	1100	497	151
Mercury	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U	0.08
Nickel	8.1 L	8.5 L	9.2 L	14.6 J	7.2 L	8 K	39.7 K	15.3 K
Potassium	485 B	835	785 B	2690	644 B	347	856	820
Selenium	0.84 U	0.76 U	0.84 U	0.7 U	0.83 U	0.68 U	0.85 U	0.7 U
Silver	1 UL	0.95 UL	1.1 UL	0.88 UL	1 UL	0.86 U	1.6	0.87 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Sodium	55.4	50.4	53.6	126	45	68 B	122 B	59.2 B
Thallium	0.84 UL	0.76 UL	0.84 UL	0.7 UL	0.83 UL	0.68 U	0.85 U	0.7 U
Vanadium	30.5	45.8	42.8	19.9 K	46.6	9.3 L	27.5	28
Zinc	36.4	29	29.5	42.2	31.5	11.1	1890	131
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
1,2-Dichlorobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
1,3-Dichlorobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
1,4-Dichlorobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2,4,5-Trichlorophenol	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
2,4,6-Trichlorophenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2,4-Dichlorophenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2,4-Dimethylphenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2,4-Dinitrophenol	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
2,4-Dinitrotoluene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2,6-Dinitrotoluene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2-Chloronaphthalene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2-Chlorophenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2-Methylnaphthalene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2-Methylphenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
2-Nitroaniline	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2-Nitrophenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
3,3'-Dichlorobenzidine	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
3-Nitroaniline	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
4,6-Dinitro-2-methylphenol	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
4-Bromophenyl-phenylether	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
4-Chloro-3-methylphenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
4-Chloroaniline	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
4-Chlorophenyl Phenyl Ether	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
4-Methylphenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
4-Nitroaniline	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
4-Nitrophenol	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
Acenaphthene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Acenaphthylene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Anthracene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Benzo(a)anthracene	n/a	420 U	n/a	n/a	n/a	380 UJ	150 J	230 J
Benzo(a)pyrene	n/a	420 U	n/a	n/a	n/a	380 UJ	170 J	200 J
Benzo(b)fluoranthene	n/a	420 U	n/a	n/a	n/a	380 UJ	210 J	320 J
Benzo(g,h,i)perylene	n/a	420 U	n/a	n/a	n/a	380 UJ	150 J	100 J
Benzo(k)fluoranthene	n/a	420 U	n/a	n/a	n/a	380 UJ	84 J	140 J
Bis(2-chloroethoxy)methane	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Bis(2-chloroethyl)ether	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Bis(2-ethylhexyl)phthalate	n/a	79 B	n/a	n/a	n/a	380 UJ	52 B	2200 J
Butylbenzylphthalate	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Carbazole	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Chrysene	n/a	420 U	n/a	n/a	n/a	380 UJ	140 J	250 J
Di-n-butylphthalate	n/a	55 B	n/a	n/a	n/a	380 UJ	380 J	4200
Di-n-octylphthalate	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Dibenz(a,h)anthracene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Dibenzofuran	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Diethylphthalate	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Dimethylphthalate	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Fluoranthene	n/a	420 U	n/a	n/a	n/a	380 UJ	270 J	230 J
Fluorene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Hexachlorobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Hexachlorobutadiene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Hexachlorocyclopentadiene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Hexachloroethane	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Indeno(1,2,3-cd)pyrene	n/a	420 U	n/a	n/a	n/a	380 UJ	120 J	100 J
Isophorone	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
N-Nitroso-di-n-propylamine	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
N-Nitrosodiphenylamine (1)	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Naphthalene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Nitrobenzene	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Pentachlorophenol	n/a	1000 U	n/a	n/a	n/a	960 UJ	1100 UJ	1900 UJ
Phenanthrene	n/a	420 U	n/a	n/a	n/a	380 UJ	95 J	770 UJ
Phenol	n/a	420 U	n/a	n/a	n/a	380 UJ	420 UJ	770 UJ
Pyrene	n/a	420 U	n/a	n/a	n/a	380 UJ	220 J	190 J

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
1,1,2,2-Tetrachloroethane	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
1,1,2-Trichloroethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
1,1-Dichloroethane	n/a	16	n/a	11 U	n/a	12 U	13 U	13 U
1,1-Dichloroethene	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
1,2-Dichloroethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
1,2-Dichloroethene (Total)	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
1,2-Dichloropropane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
2-Butanone	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
2-Hexanone	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
4-Methyl-2-pentanone	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
Acetone	n/a	17 B	n/a	17 B	n/a	12 U	13 U	2 B
Benzene	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Bromodichloromethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Bromoform	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Bromomethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Carbon Disulfide	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Carbon Tetrachloride	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Chlorobenzene	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
Chloroethane	n/a	12 UJ	n/a	11 UJ	n/a	12 U	13 U	13 U
Chloroform	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Chloromethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibromochloromethane	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Ethylbenzene	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
Methylene Chloride	n/a	12 U	n/a	1 J	n/a	2 B	5 B	3 B
Styrene	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
Tetrachloroethene	n/a	5 J	n/a	11 U	n/a	12 U	17 J	23
Toluene	n/a	12 U	n/a	11 U	n/a	12 U	2 B	13 U
Trichloroethene	n/a	12 U	n/a	11 U	n/a	12 U	8 J	8 J
Vinyl Chloride	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
Xylene (Total)	n/a	12 U	n/a	11 U	n/a	12 U	13 UJ	13 U
cis-1,3-Dichloropropene	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
trans-1,3-Dichloropropene	n/a	12 U	n/a	11 U	n/a	12 U	13 U	13 U
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
4,4'-DDE	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
4,4'-DDT	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Aldrin	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Alpha-BHC	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Alpha-Chlordane	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Aroclor-1016	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	39 UJ
Aroclor-1221	n/a	86 U	80 U	73 U	n/a	78 UJ	85 UJ	79 UJ
Aroclor-1232	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	39 UJ
Aroclor-1242	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	39 UJ
Aroclor-1248	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	39 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-41	SB-02-42	SB-02-43	SB-02-44	SB-02-45	SB-02-46	SB-02-47	SB-02-47A
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Aroclor-1254	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	11 J
Aroclor-1260	n/a	42 U	40 U	36 U	n/a	38 UJ	42 UJ	39 UJ
Beta-BHC	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Delta-BHC	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Dieldrin	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Endosulfan I	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Endosulfan II	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Endosulfan Sulfate	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Endrin	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Endrin Aldehyde	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Endrin Ketone	n/a	4.2 U	4 U	3.6 U	n/a	3.8 UJ	4.2 UJ	3.9 UJ
Gamma-BHC (Lindane)	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Gamma-Chlordane	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Heptachlor	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Heptachlor Epoxide	n/a	2.2 U	2 U	1.8 U	n/a	2 UJ	2.1 UJ	2 UJ
Methoxychlor	n/a	22 U	20 U	18 U	n/a	20 UJ	21 UJ	20 UJ
Toxaphene	n/a	220 U	200 U	180 U	n/a	200 UJ	210 UJ	200 UJ

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
DIOXINS/FURANS								
1,2,3,4,6,7,8-HpCDD	0.22 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,4,6,7,8-HpCDF	0.32 U	0.068 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,4,7,8,9-HpCDF	0.065 U	0.07 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,4,7,8-HxCDD	0.085 U	0.04 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,4,7,8-HxCDF	0.03 U	0.078 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,6,7,8-HxCDD	0.055 U	0.088 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,6,7,8-HxCDF	0.15 U	0.078 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,7,8,9-HxCDD	0.035 U	0.055 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,7,8,9-HxCDF	0.11 U	0.1 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,7,8-PeCDD	0.025 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,7,8-PeCDF	0.1 U	0.06 U	n/a	n/a	n/a	n/a	n/a	n/a
2,3,4,6,7,8-HxCDF	0.032 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
2,3,4,7,8-PeCDF	0.045 U	0.035 U	n/a	n/a	n/a	n/a	n/a	n/a
2,3,7,8-Tetrachlorodibenzo-p ng/g	0.1 U	0.055 U	n/a	n/a	n/a	n/a	n/a	n/a
ran ng/g	0.04 U	0.058 U	n/a	n/a	n/a	n/a	n/a	n/a
Octachlorodibenzo-p-dioxin ng/g	0.53 J	0.25 J	n/a	n/a	n/a	n/a	n/a	n/a
Octachlorodibenzofuran ng/g	0.25 J	0.032 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Hpcdd	0.22 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Hpcdf	0.065 U	0.068 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Hxcdd	0.035 U	0.04 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Hxcdf	0.03 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Pecdd	0.025 U	0.065 U	n/a	n/a	n/a	n/a	n/a	n/a
Total Pecdf	0.045 U	0.035 U	n/a	n/a	n/a	n/a	n/a	n/a
Total ug/kg	0.1 U	0.055 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
DIOXINS/FURANS								
Tetrachlorodibenzofuran ug/kg	0.04 U	0.058 U	n/a	n/a	n/a	n/a	n/a	n/a
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	16800	14400	n/a	n/a	n/a	n/a	n/a	n/a
Antimony	9.7 U	9 U	3.1 N	0.37 BN	10.7 N	1.2 BN	18.8 N	0.71 BN
Arsenic	15.5	4.3	n/a	n/a	n/a	n/a	n/a	n/a
Barium	464	70	n/a	n/a	n/a	n/a	n/a	n/a
Beryllium	8.2	0.93	n/a	n/a	n/a	n/a	n/a	n/a
Cadmium	25.8	0.39 U	n/a	1.1	10	5.2	116	0.49
Calcium	15700	819	n/a	n/a	n/a	n/a	n/a	n/a
Chromium	76.4	19.2	n/a	n/a	n/a	n/a	n/a	n/a
Chromium, Hexavalent	2.6	0.98 U	n/a	n/a	n/a	n/a	n/a	n/a
Cobalt	12.1	8.8	n/a	n/a	n/a	n/a	n/a	n/a
Copper	4190	12.1	90.8	10	1060	84.3	3540	26
Cyanide	0.61 U	0.58 U	n/a	n/a	n/a	n/a	n/a	n/a
Iron	40100	15800	n/a	n/a	n/a	n/a	n/a	n/a
Lead	978	20.6	111 E	12.1 E	1220 E	48.6 E	2060 E	92.9 E
Magnesium	4050	1770	n/a	n/a	n/a	n/a	n/a	n/a
Manganese	917	489	n/a	n/a	n/a	n/a	n/a	n/a
Mercury	0.23	0.06 U	n/a	n/a	n/a	n/a	n/a	n/a
Nickel	143	11.8 K	n/a	n/a	n/a	n/a	n/a	n/a
Potassium	967	609	n/a	n/a	n/a	n/a	n/a	n/a
Selenium	0.85 K	0.78 U	n/a	n/a	n/a	n/a	n/a	n/a
Silver	49	0.98 U	n/a	0.17 B	21.1	39.6	112	0.58 U

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Sodium	752	69.3 B	n/a	n/a	n/a	n/a	n/a	n/a
Thallium	0.84 U	0.78 U	n/a	n/a	n/a	n/a	n/a	n/a
Vanadium	586	24.2	n/a	n/a	n/a	n/a	n/a	n/a
Zinc	5640	39.2	628	46.4	1280	79.1	3790	101
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichlorobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
1,3-Dichlorobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
1,4-Dichlorobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4,5-Trichlorophenol	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4,6-Trichlorophenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dimethylphenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrophenol	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrotoluene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2,6-Dinitrotoluene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2-Chloronaphthalene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2-Chlorophenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylnaphthalene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylphenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
2-Nitroaniline	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2-Nitrophenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
3,3'-Dichlorobenzidine	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
3-Nitroaniline	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
4,6-Dinitro-2-methylphenol	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Bromophenyl-phenylether	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloro-3-methylphenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloroaniline	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Chlorophenyl Phenyl Ether	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Methylphenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitroaniline	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitrophenol	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthylene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Anthracene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene	1300 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)pyrene	1200 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene	1500 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(g,h,i)perylene	1000 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(k)fluoranthene	1000 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethoxy)methane	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethyl)ether	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Bis(2-ethylhexyl)phthalate	8100 UJ	120 B	n/a	n/a	n/a	n/a	n/a	n/a
Butylbenzylphthalate	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Carbazole	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Chrysene	1500 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Di-n-butylphthalate	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Di-n-octylphthalate	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Dibenz(a,h)anthracene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Dibenzofuran	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Diethylphthalate	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Dimethylphthalate	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Fluoranthene	2800 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Fluorene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobutadiene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorocyclopentadiene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Hexachloroethane	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Isophorone	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
N-Nitroso-di-n-propylamine	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
N-Nitrosodiphenylamine (1)	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Nitrobenzene	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Pentachlorophenol	20000 UJ	1000 UR	n/a	n/a	n/a	n/a	n/a	n/a
Phenanthrene	1800 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Phenol	8100 UJ	400 UR	n/a	n/a	n/a	n/a	n/a	n/a
Pyrene	2400 J	400 UR	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2,2-Tetrachloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2-Trichloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethene (Total)	6 J	12 U	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloropropane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Butanone	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
2-Hexanone	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
4-Methyl-2-pentanone	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Acetone	66	3 B	n/a	n/a	n/a	n/a	n/a	n/a
Benzene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromodichloromethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromoform	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Bromomethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Carbon Disulfide	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Carbon Tetrachloride	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chlorobenzene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloroethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloroform	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Chloromethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibromochloromethane	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Methylene Chloride	4 B	6 B	n/a	n/a	n/a	n/a	n/a	n/a
Styrene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Tetrachloroethene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Trichloroethene	2 J	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Vinyl Chloride	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
Xylene (Total)	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
cis-1,3-Dichloropropene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
trans-1,3-Dichloropropene	14 U	12 U	n/a	n/a	n/a	n/a	n/a	n/a
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	9.4 J	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
4,4'-DDE	82 J	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
4,4'-DDT	150 J	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aldrin	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-BHC	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-Chlordane	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1016	41 UJ	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1221	83 UJ	81 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1232	41 UJ	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1242	41 UJ	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1248	41 UJ	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	SB-02-48	SB-02-49	SB-02-80	SB-02-81	SB-02-82	SB-02-83	SB-02-8312	SB-02-84
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Aroclor-1254	66 J	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Aroclor-1260	41 UJ	40 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Beta-BHC	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Delta-BHC	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Dieldrin	5.8 J	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endosulfan I	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endosulfan II	4.1 UJ	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endosulfan Sulfate	4.1 UJ	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endrin	4.1 UJ	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endrin Aldehyde	4.1 UJ	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Endrin Ketone	4.1 UJ	4 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Gamma-BHC (Lindane)	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Gamma-Chlordane	2.3 J	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Heptachlor	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Heptachlor Epoxide	2.1 UJ	2 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Methoxychlor	21 UJ	20 UJ	n/a	n/a	n/a	n/a	n/a	n/a
Toxaphene	210 UJ	200 UJ	n/a	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	15000	16300	16000	n/a	n/a	n/a	n/a	n/a
Antimony	9.4 UR	10.6 UR	9.7 UR	0.88 BN	1.5 N	1 BN	1.2 BN	2.1 N
Arsenic	4.5	5.8	4.4	n/a	n/a	n/a	n/a	n/a
Barium	103	36.4	113	n/a	n/a	n/a	n/a	n/a
Beryllium	1.1	0.64	1.2	n/a	n/a	n/a	n/a	n/a
Cadmium	0.49 L	0.4 UL	0.37 UL	1.7 N	2.1	0.62 N	2.8 N	3.6
Calcium	2520 J	928 J	1950 J	n/a	n/a	n/a	n/a	n/a
Chromium	19	23.8	20.3	n/a	n/a	n/a	n/a	n/a
Cobalt	7.6	8.8	9	n/a	n/a	n/a	n/a	n/a
Copper	22	11.6	16.4	n/a	n/a	12.3	n/a	n/a
Cyanide	1.2 U	1.2 U	1.2 U	n/a	n/a	n/a	n/a	n/a
Iron	16200	22200	14900	n/a	n/a	n/a	n/a	n/a
Lead	33.3 J	8.8 J	27.7 J	21.1 N	72.7	11.4 N	83.9 N	95.6
Magnesium	2820	2590	2440	n/a	n/a	n/a	n/a	n/a
Manganese	481	291	419	n/a	n/a	n/a	n/a	n/a
Mercury	0.05 UL	0.05 UL	0.06 UL	n/a	n/a	n/a	n/a	n/a
Nickel	7.7 K	4.9 K	8.4 K	n/a	n/a	n/a	n/a	n/a
Potassium	520	886	575	n/a	n/a	n/a	n/a	n/a
Selenium	0.35 UJ	0.4 UJ	0.37 UJ	n/a	n/a	n/a	n/a	n/a
Silver	0.89 UL	1 UL	0.92 UL	n/a	n/a	0.61 U	n/a	n/a
Sodium	28.6 B	20.8 B	30.4 B	n/a	n/a	n/a	n/a	n/a
Thallium	0.53 U	0.6 U	0.55 U	n/a	n/a	n/a	n/a	n/a
Vanadium	24	33.7	22	n/a	n/a	n/a	n/a	n/a
Zinc	142	38	108	n/a	n/a	43.8	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,2,4-Trichlorobenzene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
1,2-Dichlorobenzene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
1,3-Dichlorobenzene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
1,4-Dichlorobenzene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,2'-Oxybis(1-chloropropane)	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2,4,5-Trichlorophenol	4800 U	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
2,4,6-Trichlorophenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2,4-Dimethylphenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrophenol	4800 U	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrotoluene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2,6-Dinitrotoluene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2-Chloronaphthalene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2-Chlorophenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2-Methylnaphthalene	6000	n/a	9800	n/a	n/a	n/a	n/a	n/a
2-Methylphenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
2-Nitroaniline	4800 U	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
2-Nitrophenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
3,3'-Dichlorobenzidine	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
3-Nitroaniline	4800 U	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
4,6-Dinitro-2-methylphenol	4800 UJ	n/a	9700 U	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4-Bromophenyl-phenylether	1900 UJ	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
4-Chloro-3-methylphenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
4-Chloroaniline	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
4-Chlorophenyl Phenyl Ether	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
4-Methylphenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
4-Nitroaniline	4800 U	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
4-Nitrophenol	4800 U	n/a	9700 UJ	n/a	n/a	n/a	n/a	n/a
Acenaphthene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Acenaphthylene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Anthracene	750 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene	200 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Benzo(a)pyrene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene	220 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Benzo(g,h,i)perylene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Benzo(k)fluoranthene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethoxy)methane	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Bis(2-chloroethyl)ether	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Bis(2-ethylhexyl)phthalate	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Butylbenzylphthalate	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Carbazole	1900 UJ	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Chrysene	190 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Di-n-butylphthalate	1900 UJ	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Di-n-octylphthalate	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Dibenz(a,h)anthracene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
SEMIVOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Dibenzofuran	1900 U	n/a	880 J	n/a	n/a	n/a	n/a	n/a
Diethylphthalate	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Dimethylphthalate	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Fluoranthene	900 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Fluorene	1900 U	n/a	1400 J	n/a	n/a	n/a	n/a	n/a
Hexachlorobenzene	1900 UJ	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Hexachlorobutadiene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Hexachlorocyclopentadiene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Hexachloroethane	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Isophorone	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
N-Nitroso-di-n-propylamine	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
N-Nitrosodiphenylamine (1)	1900 UJ	n/a	1000 J	n/a	n/a	n/a	n/a	n/a
Naphthalene	700 J	n/a	1000 J	n/a	n/a	n/a	n/a	n/a
Nitrobenzene	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Pentachlorophenol	4800 UJ	n/a	9700 U	n/a	n/a	n/a	n/a	n/a
Phenanthrene	3200 J	n/a	1600 J	n/a	n/a	n/a	n/a	n/a
Phenol	1900 U	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
Pyrene	210 J	n/a	3900 U	n/a	n/a	n/a	n/a	n/a
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1,1-Trichloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,1,2,2-Tetrachloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,1,2-Trichloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
1,1-Dichloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethene (Total)	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
1,2-Dichloropropane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
2-Butanone	120 U	12 UJ	1400 U	n/a	n/a	n/a	n/a	n/a
2-Hexanone	120 U	12 UJ	1400 U	n/a	n/a	n/a	n/a	n/a
4-Methyl-2-pentanone	120 U	12 UJ	1400 U	n/a	n/a	n/a	n/a	n/a
Acetone	120 B	2 B	1100 B	n/a	n/a	n/a	n/a	n/a
Benzene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Bromodichloromethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Bromoform	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Bromomethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Carbon Disulfide	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Carbon Tetrachloride	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Chlorobenzene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Chloroethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Chloroform	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Chloromethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Dibromochloromethane	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Methylene Chloride	34 B	19 B	250 B	n/a	n/a	n/a	n/a	n/a
Styrene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Tetrachloroethene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
VOLATILES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Toluene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Trichloroethene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Vinyl Chloride	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
Xylene (Total)	12 J	12 U	430 J	n/a	n/a	n/a	n/a	n/a
cis-1,3-Dichloropropene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
trans-1,3-Dichloropropene	120 U	12 U	1400 U	n/a	n/a	n/a	n/a	n/a
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4'-DDD	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
4,4'-DDE	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
4,4'-DDT	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Aldrin	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Alpha-BHC	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Alpha-Chlordane	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1016	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1221	77 U	n/a	79 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1232	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1242	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1248	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1254	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Aroclor-1260	38 U	n/a	39 UJ	n/a	n/a	n/a	n/a	n/a
Beta-BHC	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Delta-BHC	2.1 J	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Dieldrin	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	TP08-02-03	TP08-02-04	TP08-02-05	VS-2A-01F	VS-2A-01FE	VS-2A-01WE	VS-2A-02F	VS-2A-02FE
LOCATION:								
PESTICIDES	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Endosulfan I	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Endosulfan II	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Endosulfan Sulfate	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Endrin	5.8 J	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Endrin Aldehyde	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Endrin Ketone	3.8 U	n/a	3.9 UJ	n/a	n/a	n/a	n/a	n/a
Gamma-BHC (Lindane)	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Gamma-Chlordane	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Heptachlor	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Heptachlor Epoxide	1.9 U	n/a	2 UJ	n/a	n/a	n/a	n/a	n/a
Methoxychlor	19 U	n/a	20 UJ	n/a	n/a	n/a	n/a	n/a
Toxaphene	190 U	n/a	200 UJ	n/a	n/a	n/a	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	VS-2A-02WE	VS-2A-03F	VS-2A-03F-DUP	VS-2A-03FE	VS-2A-04F	VS-2A-05F	VS-2A-05WE	VS-2A-06F
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Antimony	28.9 N	5.5 N	5.4 N	1.7 N	0.81 BN	0.91 BN	0.58 BN	0.92 BN
Cadmium	28.6 N	12.1 N	13.3 N	2.4	0.48 N	0.56 N	0.14 B	1.9
Copper	666	n/a	n/a	n/a	n/a	n/a	9.3	n/a
Lead	624 N	245 N	572 N	66.2	11.2 N	14.6 N	16.2	62
Silver	50.6	n/a	n/a	n/a	n/a	n/a	0.62 U	n/a
Zinc	1560	n/a	n/a	n/a	n/a	n/a	33.7	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	VS-2A-07F	VS-2A-08F	VS-2A-08F-DUP	VS-2A-09F	VS-2A-10F	VS-2A-11F	VS-2A-11F-DUP	VS-2A-12F
LOCATION:								
INORGANICS	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Antimony	0.63 BN	1.1 BN	1.7 N*	30 N*	30.2 N*	2.6 N*	n/a	0.86 BN
Cadmium	0.4	1.9	2.4	93.5	14.8	3.5	254 BN	0.52
Copper	n/a	n/a	n/a	n/a	n/a	98 N*	n/a	n/a
Lead	21.8	57.4 *	92.6 *	2060 *	811 *	107 BN	3.8 N*	32.8 BN
Silver	n/a	n/a	n/a	n/a	n/a	12.8 N*	9.9	126 N*
Zinc	n/a	n/a	n/a	n/a	n/a	147	n/a	n/a

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

SAMPLE I.D.:	W-2A-04WA	W-2A-05WA	---	---	---	---	---	---
LOCATION:			---	---	---	---	---	---
INORGANICS	**mg/kg**	**mg/kg**						
Antimony	15.6 N*	2.4 N*						
Cadmium	18.9	2.3						
Copper	1030 N	107 N						
Lead	1030 *	241 *						
Silver	66.9 N*	0.11 BN						
Zinc	1390 N	989 N						

SUMMARY OF ANALYTICAL RESULTS FOR AREA 2 SUBSURFACE SOIL

NAWC WARMINSTER, PENNSYLVANIA

NOTES:

J	--	Value is considered estimated due to exceedance of technical quality control criteria or because result is less than the Contract Required Quantitation Limit (CRQL).
U	--	Value is a non-detected result as reported by the laboratory.
UJ	--	Non-detected result is considered estimated due to exceedance of technical quality control criteria.
UL	--	Non-detected result is considered biased low due to exceedance of technical quality control criteria.
UR	--	Non-detected result is considered unusable due to exceedance of technical quality control criteria.
L	--	Positive result is considered biased low due to exceedance of technical quality control criteria.
K	--	Positive result is considered biased high due to exceedance of technical quality control criteria.
B	--	Positive result is considered to be an artifact of blank contamination, and should not be considered present.
R	--	Positive result is considered unusable due to exceedance of technical quality control criteria.
n/a	--	No result is available/applicable for this parameter in this sample.
ND	--	Value is a non-detected result as reported by the laboratory. Detection limit not available.

ATTACHMENT 2

Risk Evaluation Tables
Site 2, NAWC Warminster

Surface Soils

Table 1-5
Selection of Chemicals of Potential Concern - Site 2 Surface Soil Inorganics
NAWC Warminster, Pennsylvania

Substance	Site-Related Frequency of Detection	Range of Positive Detections for Site Minimum	Maximum	Maximum Detected in Background	Are Site Results Above Background?	Applicable Risk-Based Concentration	Chemical Selected as a COPC ?	Representative Concentration For Site Data
Aluminum	17/17	9090 -	19800	18100	Y	7800	Y	15100
Antimony	22/29	0.28 -	198	13.6	N	3.1	N	27.4
Arsenic	17/17	3.1 -	13.1	12.1	Y	0.43	Y	6.51
Barium	17/17	43.8 -	452	225	Y	550	N	150
Beryllium	17/17	0.63 -	1.4	1.7	Y	16	N	1.1
Cadmium	32/41	0.26 -	59.3	0.27	Y	7.8	Y	15.6
Calcium	17/17	886 -	18800	1910	Y	10000000	N	10000
Chromium	17/17	19.1 -	126	35.3	Y	39	Y	66
Cobalt	17/17	8.3 -	14.4	22.1	Y	470	N	12.3
Copper	45/45	5.7 -	13600	30.6	Y	310	Y	684
Iron	17/17	16700 -	38000	410500	N	2300	N	25600
Lead	43/43	4.4 -	7350	96.5	Y	400	Y	783
Magnesium	17/17	1900 -	13200	4960	Y	4000000	N	6010
Manganese	17/17	337 -	1040	2010	Y	1100	N	771
Mercury	7/9	0.14 -	1.1	0.37	Y		N	1.1
Nickel	8/8	13.3 -	47	21.7	Y	160	N	47
Potassium	17/17	684 -	2590	3050	Y	35000000	N	1750
Selenium	4/17	0.89 -	1.6	0.09	N	39	N	0.615
Silver	20/35	0.97 -	210	1.2	Y	39	Y	64.1
Sodium	9/9	124 -	1870	86.7	Y	24000000	N	1870
Thallium	5/17	1 -	1.4	0.42	Y	0.55	Y	0.81
Vanadium	17/17	23.5 -	56.9	45	Y	55	Y	36.2
Zinc	45/45	16.2 -	4800	60	Y	2300	Y	826

Notes:

Units are mg/kg for inorganics.
Substances are selected as COPCs if maximum values exceed risk-based screening levels (RBCs) and frequency of detection is greater than 5 percent.
*Minerals that are essential nutrients (calcium, magnesium, sodium, potassium) are compared to Recommended Daily Intakes (RDAs) as screening levels. Values over 1E+06 are for illustration only to indicate no concentration in soil would exceed the RDA.
The determination of site results exceeding background is based on an overall evaluation of statistical tests presented in a separate table.
RBCs represent concentrations associated with a 10^{-6} cancer risk level or a non-cancer hazard index of 0.1.
Applicable RBCs originate from EPA Region 3 RBCs for residential exposure, incidental soil ingestion, inhalation, and dermal exposure, with non-cancer risk adjusted to 0.1 hazard index.
An RBC for lead based on cancer risk or hazard index is not available. The 400 mg/kg EPA residential soil guideline is used as an RBC for soil ingestion (EPA, 1994. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12.)
NA = Background Comparison Tests were Not Applicable because of lack of background data.

Table 1-6
Selection of Chemicals of Potential Concern - Site 2 Surface Soil Organics
NAWC Warminster, Pennsylvania

Substance	Site-Related Frequency of Detection	Range of Positive Detections for Site Minimum	Maximum	Are Site Results Above Background?	Applicable Risk-Based Concentration	Chemical Selected as a COPC?	Representative Concentration For Site Data
2-Methylnaphthalene	1/17	46 -	46	NA	310000	N	46
4,4'-DDT	2/9	4.2 -	4.9	NA	1900	N	4.9
Acenaphthene	4/17	43 -	130	NA	470000	N	130
Acenaphthylene	6/17	53 -	220	NA	-	Y	181
Alpha-Chlordane	2/9	4.6 -	160	NA	1800	N	160
Anthracene	10/17	51 -	490	NA	2300000	N	258
Aroclor-1254	12/17	11 -	3700	NA	320	Y	951
Aroclor-1260	1/17	110 -	110	NA	320	N	37.5
Benz(a)anthracene	11/17	130 -	1600	NA	870	Y	844
Benzo(a)pyrene	11/17	150 -	1600	NA	87	Y	942
Benzo(b)fluoranthene	11/17	180 -	2700	NA	870	Y	1540
Benzo(g,h,i)perylene	18/32	55 -	3100	NA	-	Y	715
Benzo(k)fluoranthene	11/17	150 -	1200	NA	870	Y	488
Bis(2-ethylhexyl)phthalate	4/9	120 -	1800	NA	46000	N	1800
Carbazole	7/17	48 -	190	NA	32000	N	177
Chrysene	11/17	170 -	1700	NA	87000	N	950
Di-n-butylphthalate	2/17	47 -	61	NA	780000	N	61
Dibenz(a,h)anthracene	6/17	37 -	240	NA	87	Y	184
Dibenzofuran	3/17	41 -	73	NA	31000	N	73
Dieldrin	1/9	32 -	32	NA	40	N	32
Endrin	3/9	7.3 -	370	NA	2300	N	370
Fluoranthene	12/17	43 -	2600	NA	310000	N	2210
Fluorene	5/17	50 -	140	NA	310000	N	140
Gamma-BHC (Lindane)	3/9	2.3 -	3.4	NA	490	N	3.4
Gamma-Chlordane	1/9	11 -	11	NA	1800	N	11
Indeno(1,2,3-cd)pyrene	23/32	49 -	4300	NA	870	Y	880
Phenanthrene	11/17	66 -	1500	NA	-	Y	678
Pyrene	12/17	40 -	2900	NA	230000	N	1980
Toluene	1/9	2 -	2	NA	1600000	N	2

Notes:

Units are ug/kg for organics.

Substances are selected as COPCs if maximum values exceed risk-based screening levels (RBCs) and frequency of detection is greater than 5 percent

*Minerals that are essential nutrients (calcium, magnesium, sodium, potassium) are compared to Recommended Daily Intakes (RDAs) as screening lev
Values over 1E+06 are for illustration only to indicate no concentration in soil would exceed the RDA.

The determination of site results exceeding background is based on an overall evaluation of statistical tests presented in a separate table.

RBCs represent concentrations associated with a 10^{-6} cancer risk level or a non-cancer hazard index of 0.1.

Applicable RBCs originate from EPA Region 3 RBCs for residential exposure, incidental soil ingestion, inhalation, and dermal exposure, with non-cancer risk adjusted to 0.1 hazard index.

An RBC for lead based on cancer risk or hazard index is not available. The 400 mg/kg EPA residential soil guideline is used as an RBC for soil ingestion (EPA, 1994. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12.)

NA = Background Comparison Tests were Not Applicable because of lack of background data.

Table 4-1
Estimated Noncarcinogenic Risks
Site Worker - Surface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Target Organ(s) for Noncarcinogenic COPCs	Estimated Noncarcinogenic Risks Site Worker			
			Ingestion	Dermal Contact	Inhalation of Dusts	Total
181	Acenaphthylene		NT	NT	NT	NT
951	Aroclor-1254	S, L, RS	4.65E-02	8.71E-02	NT	1.34E-01
844	Benz(a)anthracene		NT	NT	NT	NT
942	Benzo(a)pyrene		NT	NT	NT	NT
1540	Benzo(b)fluoranthene		NT	NT	NT	NT
715	Benzo(g,h,i)perylene		NT	NT	NT	NT
488	Benzo(k)fluoranthene		NT	NT	NT	NT
184	Dibenz(a,h)anthracene		NT	NT	NT	NT
880	Indeno(1,2,3-cd)pyrene		NT	NT	NT	NT
678	Phenanthrene		NT	NT	NT	NT
15100	Aluminum		1.48E-02	1.71E-02	NT	3.18E-02
6.51	Arsenic	S	2.12E-02	2.23E-02	NT	4.35E-02
15.6	Cadmium	K	3.05E-02	1.90E-01	1.03E-05	2.21E-01
66	Chromium	S, K	2.15E-02	6.72E-01	2.48E-02	7.18E-01
684	Copper	C, K, L	1.67E-02	8.70E-03	NT	2.54E-02
783	Lead	C, CNS	NT	NT	NT	NT
64.1	Silver	S	1.25E-02	3.91E-03	NT	1.65E-02
0.81	Thallium	S, K, L, CNS	1.13E-02	3.53E-03	NT	1.49E-02
36.2	Vanadium		5.06E-03	7.89E-02	NT	8.40E-02
826	Zinc	C	2.69E-03	3.36E-03	NT	6.06E-03
	Total Risk:		**1.83E-01**	**1.09E+00**	**2.48E-02**	**1.29E+00**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.
Target Organs: C = Cardivascular System, S = Skin, K = Kidney, L = Liver, CNS = Central Nervous System, RS = Reproductive System

Table 4-2
Estimated Noncarcinogenic Risks
Residential Child - Surface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Target Organ(s) for Noncarcinogenic COPCs	Estimated Noncarcinogenic Risks Residential Child			
			Ingestion	Dermal Contact	Inhalation of Dusts	Total
181	Acenaphthylene		NT	NT	NT	NT
951	Aroclor-1254	S, L, RS	6.08E-01	7.13E-01	NT	1.32E+00
844	Benz(a)anthracene		NT	NT	NT	NT
942	Benzo(a)pyrene		NT	NT	NT	NT
1540	Benzo(b)fluoranthene		NT	NT	NT	NT
715	Benzo(g,h,i)perylene		NT	NT	NT	NT
488	Benzo(k)fluoranthene		NT	NT	NT	NT
184	Dibenz(a,h)anthracene		NT	NT	NT	NT
880	Indeno(1,2,3-cd)pyrene		NT	NT	NT	NT
678	Phenanthrene		NT	NT	NT	NT
15100	Aluminum		1.93E-01	1.40E-01	NT	3.33E-01
6.51	Arsenic	S	2.77E-01	1.83E-01	NT	4.60E-01
15.6	Cadmium	K	3.99E-01	1.56E+00	1.59E-04	1.96E+00
66	Chromium	S, K	2.81E-01	5.50E+00	3.84E-01	6.16E+00
684	Copper	C, K, L	2.19E-01	7.12E-02	NT	2.90E-01
783	Lead	C, CNS	NT	NT	NT	NT
64.1	Silver	S	1.64E-01	3.20E-02	NT	1.96E-01
0.81	Thallium	S, K, L, CNS	1.48E-01	2.89E-02	NT	1.77E-01
36.2	Vanadium		6.61E-02	6.46E-01	NT	7.12E-01
826	Zinc	C	3.52E-02	2.75E-02	NT	6.27E-02
	Total Risk:		**2.39E+00**	**8.90E+00**	**3.84E-01**	**1.17E+01**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.
Target Organs: C = Cardivascular System, S = Skin, K = Kidney, L = Liver, CNS = Central Nervous System, RS = Reproductive System

Tabl 4-3
Estimated Carcinogenic Risks
Site Worker - Surface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Estimated Cancer Risks Site Worker			
		Ingestion	Dermal Contact	Inhalation of Dusts	Total
181	Acenaphthylene	NT	NT	NT	NT
951	Aroclor-1254	6.65E-07	1.24E-06	2.55E-11	1.91E-06
844	Benz(a)anthracene	2.15E-07	NT	NT	2.15E-07
942	Benzo(a)pyrene	2.40E-06	NT	3.91E-11	2.40E-06
1540	Benzo(b)fluoranthene	3.93E-07	NT	NT	3.93E-07
715	Benzo(g,h,i)perylene	NT	NT	NT	NT
488	Benzo(k)fluoranthene	1.24E-08	NT	NT	1.24E-08
184	Dibenz(a,h)anthracene	4.69E-07	NT	NT	4.69E-07
880	Indeno(1,2,3-cd)pyrene	2.24E-07	NT	NT	2.24E-07
678	Phenanthrene	NT	NT	NT	NT
15100	Aluminum	NT	NT	NT	NT
6.51	Arsenic	3.41E-06	3.59E-06	1.32E-09	7.00E-06
15.6	Cadmium	NT	NT	1.32E-09	1.32E-09
66	Chromium	NT	NT	3.63E-08	3.63E-08
684	Copper	NT	NT	NT	NT
783	Lead	NT	NT	NT	NT
64.1	Silver	NT	NT	NT	NT
0.81	Thallium	NT	NT	NT	NT
36.2	Vanadium	NT	NT	NT	NT
826	Zinc	NT	NT	NT	NT
	Total Risk:	**7.79E-06**	**4.83E-06**	**3.90E-08**	**1.27E-05**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.

Table 4-4
Estimated Carcinogenic Risks
Lifetime Resident - Surface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Estimated Cancer Risks Site Worker			
		Ingestion	Dermal Contact	Inhalation of Dusts	Total
181	Acenaphthylene	NT	NT	NT	NT
951	Aroclor-1254	2.98E-06	4.12E-06	2.30E-10	7.10E-06
844	Benz(a)anthracene	9.65E-07	NT	NT	9.65E-07
942	Benzo(a)pyrene	1.08E-05	NT	3.53E-10	1.08E-05
1540	Benzo(b)fluoranthene	1.76E-06	NT	NT	1.76E-06
715	Benzo(g,h,i)perylene	NT	NT	NT	NT
488	Benzo(k)fluoranthene	5.58E-08	NT	NT	5.58E-08
184	Dibenz(a,h)anthracene	2.10E-06	NT	NT	2.10E-06
880	Indeno(1,2,3-cd)pyrene	1.01E-06	NT	NT	1.01E-06
678	Phenanthrene	NT	NT	NT	NT
15100	Aluminum	NT	NT	NT	NT
6.51	Arsenic	1.53E-05	1.19E-05	1.19E-08	2.72E-05
15.6	Cadmium	NT	NT	1.19E-08	1.19E-08
66	Chromium	NT	NT	3.27E-07	3.27E-07
684	Copper	NT	NT	NT	NT
783	Lead	NT	NT	NT	NT
64.1	Silver	NT	NT	NT	NT
0.81	Thallium	NT	NT	NT	NT
36.2	Vanadium	NT	NT	NT	NT
826	Zinc	NT	NT	NT	NT
	Total Risk:	**3.49E-05**	**1.60E-05**	**3.52E-07**	**5.13E-05**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.

Subsurface Soils

Table 1-7
Selection of Chemicals of Potential Concern - Site 2 Subsurface Soil Inorganics
NAWC Warminster, Pennsylvania

Substance	Site-Related Frequency of Detection	Range of Positive Detections for Site Minimum	Maximum	Maximum Detected in Background	Are Site Results Above Background?	Applicable Risk-Based Concentration	Chemical Selected as a COPC ?	Representative Concentration For Site Data
Aluminum	43/43	5210 -	23200	18100	Y	7800	Y	13800
Antimony	22/43	1.5 -	90.5	13.6	Y	3.1	Y	16.8
Arsenic	39/39	0.85 -	19.6	12.1	Y	0.43	Y	7.4
Barium	43/43	21.6 -	719	225	Y	550	Y	137
Beryllium	41/41	0.28 -	8.2	1.7	Y	16	N	1.1
Cadmium	36/62	0.4 -	293	0.27	Y	7.8	Y	21.7
Calcium	42/42	387 -	74000	1910	Y	10000000	N	17000
Chromium	43/43	4 -	3840	35.3	Y	7800	N	195
Cobalt	42/42	3.5 -	24.8	22.1	Y	470	N	11.1
Copper	55/55	4.6 -	4190	30.6	Y	310	Y	366
Cyanide	3/34	0.85 -	20.4	0.6	N	160000	N	0.773
Hexavalent Chromium	4/7	0.95 -	3.59	-	NA	39	N	3.59
Iron	43/43	4000 -	103000	410500	N	2300	N	27700
Lead	64/64	1.5 -	2060	96.5	Y	400	Y	455
Magnesium	42/42	749 -	29900	4960	Y	4000000	N	3870
Manganese	43/43	127 -	1760	2010	Y	1100	Y	617
Mercury	13/43	0.06 -	0.98	0.37	Y	-	Y	0.141
Nickel	36/36	3.1 -	143	21.7	Y	160	N	26.8
Potassium	37/37	110 -	2690	3050	Y	35000000	N	1020
Selenium	2/43	0.78 -	0.85	0.09	N	39	N	0.418
Silver	17/54	1.5 -	317	1.2	Y	39	Y	48.3
Sodium	21/21	45 -	752	86.7	Y	24000000	N	226
Vanadium	43/43	5.7 -	586	45	Y	55	Y	44.7
Zinc	56/56	5.2 -	5640	60	Y	2300	Y	814

Notes:

Units are mg/kg for inorganics.

Substances are selected as COPCs if maximum values exceed risk-based screening levels (RBCs) and frequency of detection is greater than 5 percent.

*Minerals that are essential nutrients (calcium, magnesium, sodium, potassium) are compared to Recommended Daily Intakes (RDAs) as screening levels. Values over 1E+06 are for illustration only to indicate no concentration in soil would exceed the RDA.

The determination of site results exceeding background is based on an overall evaluation of statistical tests presented in a separate table.

RBCs represent concentrations associated with a 10^{-6} cancer risk level or a non-cancer hazard index of 0.1.

Applicable RBCs originate from EPA Region 3 RBCs for residential exposure, incidental soil ingestion, inhalation, and dermal exposure, with non-cancer risk adjusted to 0.1 hazard index.

An RBC for lead based on cancer risk or hazard index is not available. The 400 mg/kg EPA residential soil guideline is used as an RBC for soil ingestion (EPA, 1994. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12.)

NA = Background Comparison Tests were Not Applicable because of lack of background data.

Table 1-8
Selection of Chemicals of Potential Concern - Site 2 Subsurface Soil Organics
NAWC Warminster, Pennsylvania

Substance	Site-Related Frequency of Detection	Range of Positive Detections for Site Minimum	Maximum	Are Site Results Above Background ?	Applicable Risk-Based Concentration	Chemical Selected as a COPC ?	Representative Concentration For Site Data
1,1-Dichloroethane	1/38	16 -	16	NA	780000	N	16
1,2-Dichloroethene (Total)	2/33	6 -	60	NA	70000	N	60
1,4-Dichlorobenzene	1/24	68 -	68	NA	27000	N	68
2-Butanone	3/36	4.5 -	20	NA	4700000	N	20
2-Methylnaphthalene	4/24	110 -	9800	NA	310000	N	1530
3,3'-Dichlorobenzidine	1/24	400 -	400	NA	1400	N	400
4,4'-DDD	3/25	7 -	45	NA	2700	N	5.77
4,4'-DDE	3/25	4.8 -	82	NA	1900	N	6.78
4,4'-DDT	3/25	16 -	150	NA	1900	N	12.2
4-Methyl-2-pentanone	1/38	110 -	110	NA	630000	N	68
Acenaphthene	3/24	170 -	390	NA	470000	N	390
Acetone	5/13	49 -	170	NA	780000	N	170
Aldrin	1/25	3.6 -	3.6	NA	38	N	1.64
Alpha-Chlordane	1/25	5.9 -	5.9	NA	1800	N	1.79
Anthracene	8/24	98 -	750	NA	2300000	N	663
Aroclor-1248	1/27	110 -	110	NA	320	N	33.5
Aroclor-1254	3/27	11 -	1150	NA	320	Y	48.1
Aroclor-1260	5/27	9 -	1600	NA	320	Y	109
Benz(a)anthracene	12/24	120 -	1800	NA	870	Y	867
Benzene	1/38	1 -	1	NA	22000	N	1
Benzo(a)pyrene	11/24	94 -	1400	NA	87	Y	901
Benzo(b)fluoranthene	12/24	120 -	1900	NA	870	Y	978
Benzo(g,h,i)perylene	11/24	66 -	1000	NA	-	N	632
Benzo(k)fluoranthene	10/24	54 -	1100	NA	870	Y	680
Bis(2-ethylhexyl)phthalate	3/17	800 -	2200	NA	46000	N	1830
Bromomethane	1/36	360 -	360	NA	11000	N	31.8
Butylbenzylphthalate	2/24	53 -	91	NA	1600000	N	91
Carbazole	3/24	170 -	340	NA	32000	N	340
Chloromethane	1/37	810 -	810	NA	49000	N	35.8
Chrysene	13/24	42 -	1700	NA	87000	N	993
Delta-BHC	1/25	2.1 -	2.1	NA	-	N	1.58
Di-n-butylphthalate	4/22	64 -	4200	NA	780000	N	1300
Dibenz(a,h)anthracene	3/24	62 -	145	NA	87	Y	145
Dibenzofuran	4/24	88 -	880	NA	31000	N	650
Dieldrin	2/25	4.3 -	5.8	NA	40	N	3.34
Endosulfan II	1/24	8.5 -	8.5	NA	47000	N	2.51
Endrin	5/25	4.3 -	20	NA	2300	N	5.51
Endrin Ketone	1/25	5.5 -	5.5	NA	2300	N	3.17
Ethylbenzene	3/38	3 -	13	NA	780000	N	13
Fluoranthene	13/24	68 -	3200	NA	310000	N	1610
Fluorene	5/24	69 -	1400	NA	310000	N	767
Gamma-BHC (Lindane)	1/25	2.5 -	2.5	NA	490	N	1.6
Gamma-Chlordane	2/25	2.3 -	3.4	NA	1800	N	1.71
Heptachlor Epoxide	1/25	3.5 -	3.5	NA	70	N	1.63
Indeno(1,2,3-cd)pyrene	9/24	100 -	810	NA	870	N	810
Methylene Chloride	5/11	1 -	23	NA	85000	N	9.19
Naphthalene	5/24	51 -	1000	NA	310000	N	651
N-Nitrosodiphenyl Amine	1/18	1000 -	1000	NA	13000	N	925
Pentachlorophenol	1/24	62 -	62	NA	5300	N	62
Phenanthrene	12/24	95 -	3200	NA	-	Y	1260
Pyrene	14/24	42 -	2700	NA	230000	N	1630
Tetrachloroethene	9/38	2 -	36	NA	12000	N	36
Toluene	3/34	2 -	150	NA	1600000	N	89.4
trans-1,3-Dichloropropene	1/38	97.75 -	97.75	NA	3500	N	69.6
Trichloroethene	8/38	1.6 -	8	NA	58000	N	8
Xylene (Total)	5/38	1.3 -	430	NA	16000000	N	47
Octachlorodibenzo-p-dioxin	4/5	0.25 -	0.68	NA	4.3	N	0.68
Octachlorodibenzofuran	1/5	0.25 -	0.25	NA	4.3	N	0.25

Notes:

Units are ug/kg for organics.

Substances are selected as COPCs if maximum values exceed risk-based screening levels (RBCs) and frequency of detection is greater than 5 percent

*Minerals that are essential nutrients (calcium, magnesium, sodium, potassium) are compared to Recommended Daily Intakes (RDAs) as screening lev
Values over 1E+06 are for illustration only to indicate no concentration in soil would exceed the RDA.

The determination of site results exceeding background is based on an overall evaluation of statistical tests presented in a separate table.

RBCs represent concentrations associated with a 10^{-6} cancer risk level or a non-cancer hazard index of 0.1.

Applicable RBCs originate from EPA Region 3 RBCs for residential exposure, incidental soil ingestion, inhalation, and dermal exposure, with non-cancer risk adjusted to 0.1 hazard index.

An RBC for lead based on cancer risk or hazard index is not available. The 400 mg/kg EPA residential soil guideline is used as an RBC for soil ingestion (EPA, 1994. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12.)

NA = Background Comparison Tests were Not Applicable because of lack of background data.

Tabl 4-5
Estimated Noncarcinogenic Risks
Site Worker - Subsurface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Target Organ(s) for Noncarcinogenic COPCs	Estimated Noncarcinogenic Risks Site Worker			
			Ingestion	Dermal Contact	Inhalation of Dusts	Total
48.1	Aroclor-1254	S, L, RS	2.35E-03	4.41E-03	NT	6.76E-03
109	Aroclor-1260		NT	NT	NT	NT
867	Benz(a)anthracene		NT	NT	NT	NT
901	Benzo(a)pyrene		NT	NT	NT	NT
978	Benzo(b)fluoranthene		NT	NT	NT	NT
632	Benzo(g,h,i)perylene		NT	NT	NT	NT
680	Benzo(k)fluoranthene		NT	NT	NT	NT
1.58	Delta-BHC		NT	NT	NT	NT
145	Dibenz(a,h)anthracene		NT	NT	NT	NT
1260	Phenanthrene		NT	NT	NT	NT
13800	Aluminum		1.35E-02	1.56E-02	NT	2.91E-02
16.8	Antimony	C	4.11E-02	1.28E-01	NT	1.69E-01
7.4	Arsenic	S	2.41E-02	2.54E-02	NT	4.95E-02
137	Barium	C, DS, RS	1.92E-03	5.97E-04	4.73E-05	2.56E-03
21.7	Cadmium	K	4.25E-02	2.65E-01	1.88E-05	3.07E-01
366	Copper	C, K, L	8.95E-03	4.66E-03	NT	1.36E-02
455	Lead	C, CNS	NT	NT	NT	NT
617	Manganese	CNS	1.28E-02	4.01E-03	2.13E-03	1.90E-02
0.141	Mercury	K, CNS	NT	NT	8.10E-08	8.10E-08
48.3	Silver	S	9.45E-03	2.95E-03	NT	1.24E-02
44.7	Vanadium		6.25E-03	9.75E-02	NT	1.04E-01
814	Zinc	C	2.65E-03	3.31E-03	NT	5.97E-03
	Total Risk:		**1.66E-01**	**5.52E-01**	**2.20E-03**	**7.19E-01**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.
Target Organs: C = Cardivascular System, S = Skin, K = Kidney, L = Liver, CNS = Central Nervous System, RS = Reproductive System, DS = Digestive System

Table 4-6
Estimated Noncarcinogenic Risks
Residential Child - Subsurface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Target Organ(s) for Noncarcinogenic COPCs	Estimated Noncarcinogenic Risks Residential Child			
			Ingestion	Dermal Contact	Inhalation of Dusts	Total
48.1	Aroclor-1254	S, L, RS	3.07E-02	3.61E-02	NT	6.68E-02
109	Aroclor-1260		NT	NT	NT	NT
867	Benz(a)anthracene		NT	NT	NT	NT
901	Benzo(a)pyrene		NT	NT	NT	NT
978	Benzo(b)fluoranthene		NT	NT	NT	NT
632	Benzo(g,h,i)perylene		NT	NT	NT	NT
680	Benzo(k)fluoranthene		NT	NT	NT	NT
1.58	Delta-BHC		NT	NT	NT	NT
145	Dibenz(a,h)anthracene		NT	NT	NT	NT
1260	Phenanthrene		NT	NT	NT	NT
13800	Aluminum		1.76E-01	1.28E-01	NT	3.04E-01
16.8	Antimony	C	5.37E-01	1.05E+00	NT	1.59E+00
7.4	Arsenic	S	3.15E-01	2.08E-01	NT	5.23E-01
137	Barium	C, DS, RS	2.50E-02	4.89E-03	5.57E-04	3.05E-02
21.7	Cadmium	K	5.55E-01	2.17E+00	2.21E-04	2.72E+00
366	Copper	C, K, L	1.17E-01	3.81E-02	NT	1.55E-01
455	Lead	C, CNS	NT	NT	NT	NT
617	Manganese	CNS	1.68E-01	3.28E-02	2.51E-02	2.26E-01
0.141	Mercury	K, CNS	NT	NT	9.53E-07	9.53E-07
48.3	Silver	S	1.24E-01	2.41E-02	NT	1.48E-01
44.7	Vanadium		8.16E-02	7.98E-01	NT	8.80E-01
814	Zinc	C	3.47E-02	2.71E-02	NT	6.18E-02
	Total Risk:		**2.16E+00**	**4.52E+00**	**2.59E-02**	**6.71E+00**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.
Target Organs: C = Cardivascular System, S = Skin, K = Kidney, L = Liver, CNS = Central Nervous System, RS = Reproductive
DS = Digestive System

Table 4-7
Estimated Carcinogenic Risks
Site Work r - Subsurface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Estimated Cancer Risks Site Worker			
		Ingestion	Dermal Contact	Inhalation of Dusts	Total
48.1	Aroclor-1254	3.36E-08	6.29E-08	1.70E-12	9.66E-08
109	Aroclor-1260	7.62E-08	1.43E-07	3.85E-12	2.19E-07
867	Benz(a)anthracene	2.21E-07	NT	NT	2.21E-07
901	Benzo(a)pyrene	2.30E-06	NT	4.93E-11	2.30E-06
978	Benzo(b)fluoranthene	2.49E-07	NT	NT	2.49E-07
632	Benzo(g,h,i)perylene	NT	NT	NT	NT
680	Benzo(k)fluoranthene	1.73E-08	NT	NT	1.73E-08
1.58	Delta-BHC	NT	NT	NT	NT
145	Dibenz(a,h)anthracene	3.70E-07	NT	NT	3.70E-07
1260	Phenanthrene	NT	NT	NT	NT
13800	Aluminum	NT	NT	NT	NT
16.8	Antimony	NT	NT	NT	NT
7.4	Arsenic	3.88E-06	4.08E-06	1.97E-09	7.96E-06
137	Barium	NT	NT	NT	NT
21.7	Cadmium	NT	NT	2.41E-09	2.41E-09
366	Copper	NT	NT	NT	NT
455	Lead	NT	NT	NT	NT
617	Manganese	NT	NT	NT	NT
0.141	Mercury	NT	NT	NT	NT
48.3	Silver	NT	NT	NT	NT
44.7	Vanadium	NT	NT	NT	NT
814	Zinc	NT	NT	NT	NT
	Total Risk:	**7.15E-06**	**4.28E-06**	**4.44E-09**	**1.14E-05**

Notes:

Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.

Table 4-8
Estimated Carcinog nic Risks
Lifetime Resident - Subsurface Soils Site 2
NAWC Warminster PA

Representative Concentration	Substance	Estimated Cancer Risks Lifetime Resident			
		Ingestion	Dermal Contact	Inhalation of Dusts	Total
48.1	Aroclor-1254	1.51E-07	2.08E-07	1.16E-11	3.59E-07
109	Aroclor-1260	3.41E-07	4.72E-07	2.64E-11	8.13E-07
867	Benz(a)anthracene	9.91E-07	NT	NT	9.91E-07
901	Benzo(a)pyrene	1.03E-05	NT	3.38E-10	1.03E-05
978	Benzo(b)fluoranthene	1.12E-06	NT	NT	1.12E-06
632	Benzo(g,h,i)perylene	NT	NT	NT	NT
680	Benzo(k)fluoranthene	7.77E-08	NT	NT	7.77E-08
1.58	Delta-BHC	NT	NT	NT	NT
145	Dibenz(a,h)anthracene	1.66E-06	NT	NT	1.66E-06
1260	Phenanthrene	NT	NT	NT	NT
13800	Aluminum	NT	NT	NT	NT
16.8	Antimony	NT	NT	NT	NT
7.4	Arsenic	1.74E-05	1.35E-05	1.35E-08	3.09E-05
137	Barium	NT	NT	NT	NT
21.7	Cadmium	NT	NT	1.65E-08	1.65E-08
366	Copper	NT	NT	NT	NT
455	Lead	NT	NT	NT	NT
617	Manganese	NT	NT	NT	NT
0.141	Mercury	NT	NT	NT	NT
48.3	Silver	NT	NT	NT	NT
44.7	Vanadium	NT	NT	NT	NT
814	Zinc	NT	NT	NT	NT
	Total Risk:	**3.20E-05**	**1.42E-05**	**3.04E-08**	**4.62E-05**

Notes:

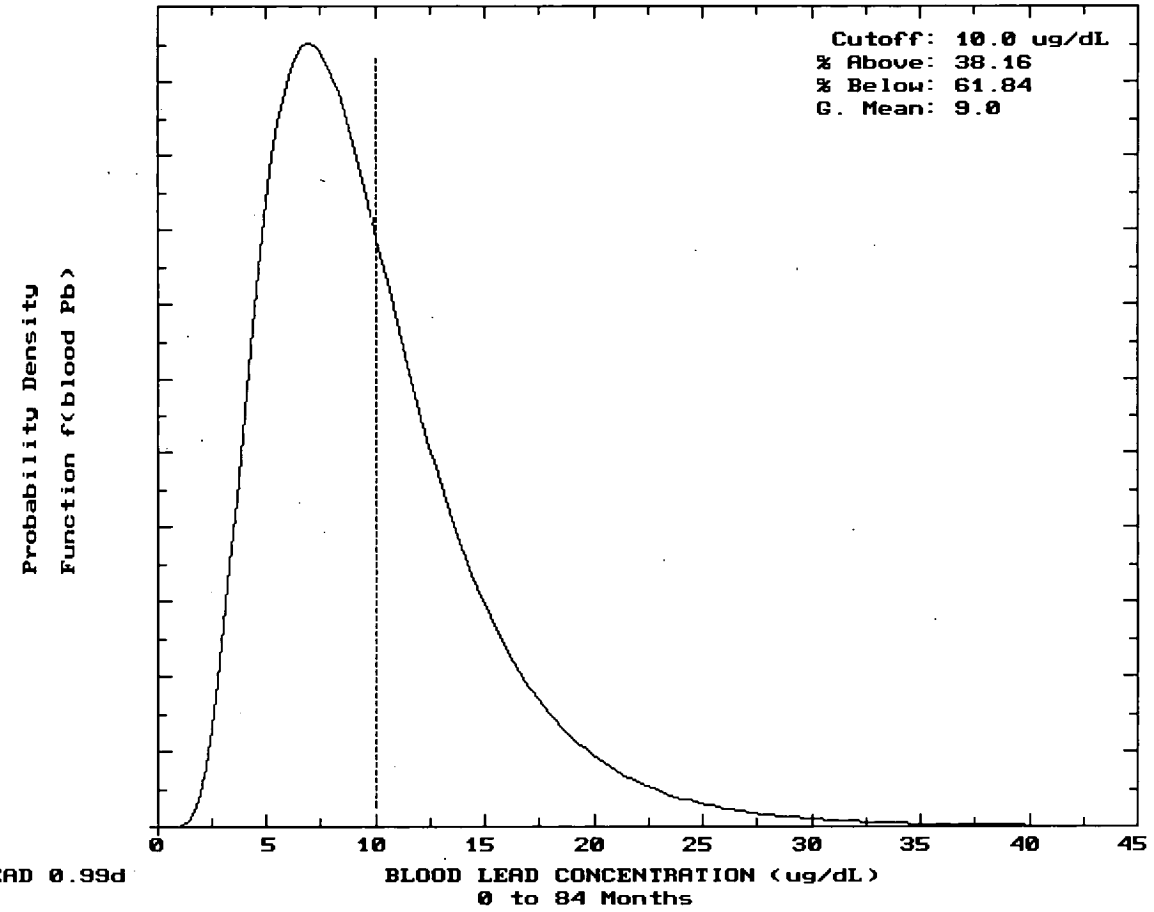
Units for RC are mg/kg.
NT -- No toxicity factor (slope factor or RfD) is applicable for the selected COPCs for this exposure route.
Estimated cancer and noncancer risks assume a Reasonable Maximum Exposure (RME).
The representative concentration is selected as presented in a preceding data evaluation table.

Lead Model Results

ADULT LEAD RISKS FOR NAWC WARMINSTER

AREA / MEDIA	RECEPTOR	CONC. mg/kg	95 Percentile ug/dl Fetal Lead
Area 2 SS	Industrial	783	7.07
Area 2 SB	Industrial	455	5.79

Adult risks are based on EPA, 1996.


Cutoff: 10.0 ug/dL
% Above: 38.16
% Below: 61.84
G. Mean: 9.0
Probability Density
Function f(blood Pb)
0
5
10
15
20
25
30
35
40
45
LEAD 0.99d
BLOOD LEAD CONCENTRATION (ug/dL)
0 to 84 Months

LEAD MODEL Version 0.99d

AIR CONCENTRATION: 0.100 ug Pb/m3 DEFAULT
Indoor AIR Pb Conc: 30.0 percent of outdoor.
Other AIR Parameters:

Age	Time Outdoors (hr)	Vent. Rate (m3/day)	Lung Abs. (%)
0-1	1.0	2.0	32.0
1-2	2.0	3.0	32.0
2-3	3.0	5.0	32.0
3-4	4.0	5.0	32.0
4-5	4.0	5.0	32.0
5-6	4.0	7.0	32.0
6-7	4.0	7.0	32.0

DIET: DEFAULT

DRINKING WATER Conc: 4.00 ug Pb/L DEFAULT
WATER Consumption: DEFAULT

SOIL & DUST:
Soil: constant conc.
Dust: constant conc.

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
0-1	783.0	783.0
1-2	783.0	783.0
2-3	783.0	783.0
3-4	783.0	783.0
4-5	783.0	783.0
5-6	783.0	783.0
6-7	783.0	783.0

Additional Dust Sources: None DEFAULT

PAINT Intake: 0.00 ug Pb/day DEFAULT

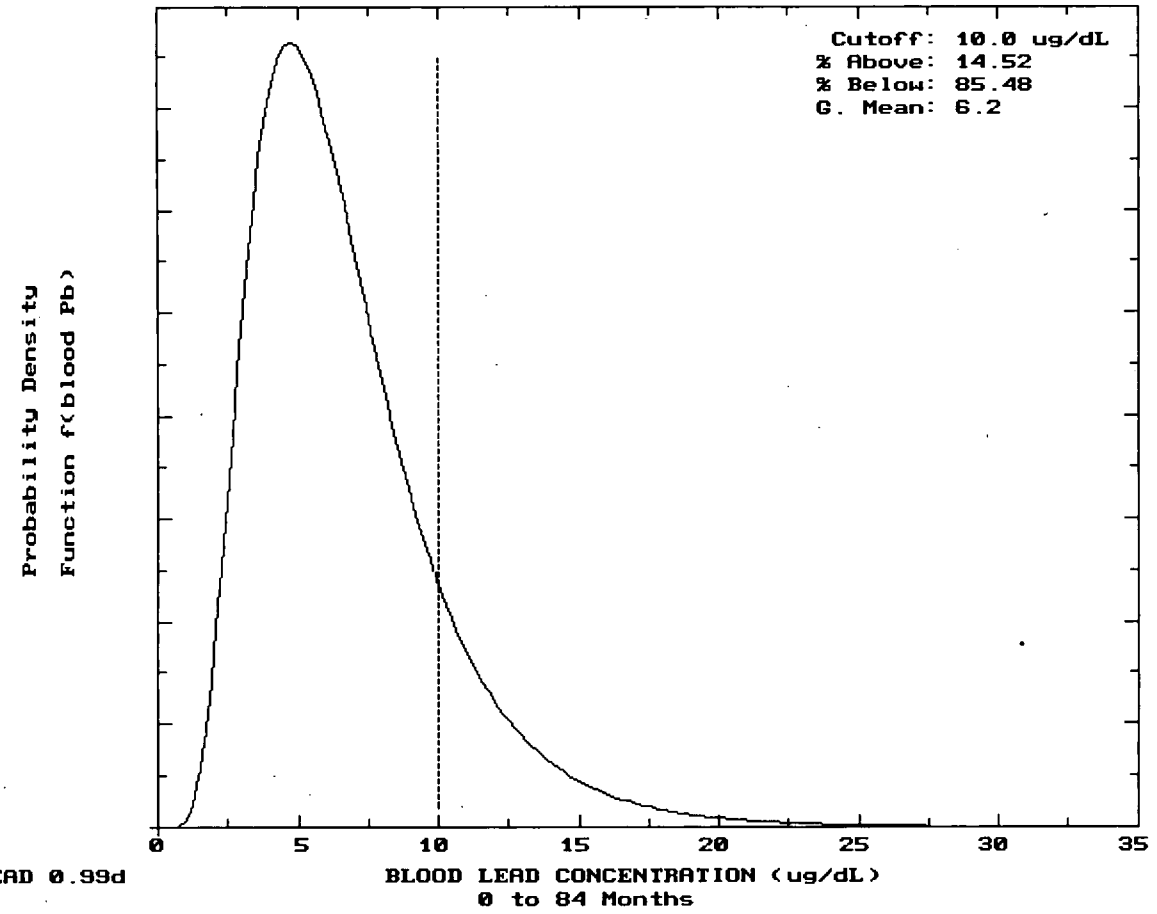
MATERNAL CONTRIBUTION: Infant Model
Maternal Blood Conc: 2.50 ug Pb/dL

CALCULATED BLOOD Pb and Pb UPTAKES:

YEAR	Blood Level (ug/dL)	Total Uptake (ug/day)	Soil+Dust Uptake (ug/day)
0.5-1:	9.8	18.63	16.06
1-2:	11.3	27.73	24.67
2-3:	10.6	28.91	25.41
3-4:	10.2	29.65	26.14
4-5:	8.5	24.19	20.53
5-6:	7.2	22.86	18.90
6-7:	6.4	22.38	18.06

YEAR	Diet Uptake (ug/day)	Water Uptake (ug/day)	Paint Uptake (ug/day)	Air Uptake (ug/day)

0.5-1:	2.22	0.32	0.00	0.02
1-2:	2.25	0.78	0.00	0.03
2-3:	2.60	0.83	0.00	0.06
3-4:	2.57	0.87	0.00	0.07
4-5:	2.63	0.96	0.00	0.07
5-6:	2.83	1.04	0.00	0.09
6-7:	3.16	1.07	0.00	0.09


Cutoff: 10.0 ug/dL
% Above: 14.52
% Below: 85.48
G. Mean: 6.2
Probability Density
Function f(blood Pb)
0
5
10
15
20
25
30
35
LEAD 0.99d
BLOOD LEAD CONCENTRATION (ug/dL)
0 to 84 Months

LEAD MODEL Version 0.99d

AIR CONCENTRATION: 0.100 ug Pb/m3 DEFAULT
Indoor AIR Pb Conc: 30.0 percent of outdoor.
Other AIR Parameters:

Age	Time Outdoors (hr)	Vent. Rate (m3/day)	Lung Abs. (%)
0-1	1.0	2.0	32.0
1-2	2.0	3.0	32.0
2-3	3.0	5.0	32.0
3-4	4.0	5.0	32.0
4-5	4.0	5.0	32.0
5-6	4.0	7.0	32.0
6-7	4.0	7.0	32.0

DIET: DEFAULT

DRINKING WATER Conc: 4.00 ug Pb/L DEFAULT
WATER Consumption: DEFAULT

SOIL & DUST:
Soil: constant conc.
Dust: constant conc.

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
0-1	455.0	455.0
1-2	455.0	455.0
2-3	455.0	455.0
3-4	455.0	455.0
4-5	455.0	455.0
5-6	455.0	455.0
6-7	455.0	455.0

Additional Dust Sources: None DEFAULT

PAINT Intake: 0.00 ug Pb/day DEFAULT

MATERNAL CONTRIBUTION: Infant Model
Maternal Blood Conc: 2.50 ug Pb/dL

CALCULATED BLOOD Pb and Pb UPTAKES:

YEAR	Blood Level (ug/dL)	Total Uptake (ug/day)	Soil+Dust Uptake (ug/day)
0.5-1:	6.8	12.76	10.01
1-2:	7.7	18.89	15.57
2-3:	7.3	19.64	15.89
3-4:	6.9	19.95	16.21
4-5:	5.8	16.30	12.48
5-6:	4.9	15.50	11.39
6-7:	4.4	15.30	10.84

YEAR	Diet Uptake (ug/day)	Water Uptake (ug/day)	Paint Uptake (ug/day)	Air Uptake (ug/day)