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ACTION MEMORANDUM FOR EXCAVATION OF CONTAMINATED SOIL AT BUILDING 191

NS MAYPORT FL

3/1/2005

CH2M HILL

Action Memorandum

Excavation of Contaminated Soil at Building 191

Naval Station Mayport
Mayport, Florida

Revision No. 00

Contract No. N62467-01-D-0331
Contract Task Order No. 0021

Submitted to:

U. S. Naval Facilities
Engineering Command
Engineering Field Division South

Prepared by:

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

March 2005

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Prepared/Approved By:

Michael Halil, Project Manager — March 15, 2005 Date

Approved By:

Scott Smith, Program Manager — March 15, 2005 Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

PROFESSIONAL CERTIFICATION

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data, delivered herewith under Contract No. N62467-01-D-0331, Contract Task Order No. 0021 is complete and accurate and complies with all requirements of this contract.

DATE:_____

NAME AND TITLE OF CERTIFYING OFFICIAL: _____

Michael D. Halil, P.E.
Project Manager
Professional Engineer Number 0000058049
Date:

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Acronyms

AOC	Area of Concern
bls	below land surface
CH2M HILL	CH2M HILL Constructors, Inc.
CFR	Code of Federal Regulations
CTO	Contract Task Order
FDEP	Florida Department of Environmental Protection
IM	interim measures
mg/kg	milligrams per kilogram
NAVFAC EFD SOUTH	U.S. Naval Facilities Engineering Command, Engineering Field Division South
NS	Naval Station
PCBs	polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SCTLs	Soil Cleanup Target Levels
SVOCs	semi-volatile organic compounds
TSCA	Toxic Substances Control Act
TtNUS	Tetra Tech NUS, Inc.
USEPA	U.S. Environmental Protection Agency

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) has been contracted by the U.S. Naval Facilities Engineering Command, Engineering Field Division South (NAVFAC EFD SOUTH), to prepare this Action Memorandum under Contract No. N62467-01-D-0331, Contract Task Order (CTO) No. 0021.

The objective of this report is to discuss the investigations performed, identify the need for a removal action, and present the proposed removal action to be conducted in the vicinity of Building 191, located at Naval Station (NS) Mayport, Mayport, Florida.

1.1 Site Conditions and Background

1.1.1 Site Description

Building 191 is located on the southwest corner of Massey Avenue and Supply Street, approximately 300 feet south of Echo River. The building is used to centralize, warehouse, and ship various supplies. Outlying buildings located within the fenced perimeter (190-A, 190-C, 2023, and 2028) are used to store materials such as solvents and compressed gases. The Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) for Area of Concern (AOC) C (Tetra Tech NUS, Inc. [TtNUS], 2003) provides additional information on the Building 191 site, including potential sources of contamination and previous contamination assessment results.

The area addressed by this scope of work, shown on Figures 1-1 and 1-2, is located approximately 125 feet from the northwest corner of Building 191. The area measures approximately 85 feet wide by 415 feet long and is primarily grass covered. Appendix A provides several photographs (taken April 2004) documenting current site conditions.

1.1.2 Previous Investigations

In August 2000, one soil sample, MPT-55-SS06-00, was collected within the area at the confluence of two unlined earthen stormwater conveyances. Soil sample MPT-55-SS06-00 was originally collected as a part of the Group IV RFI, but was included in the AOC C RFI due to its applicability. The soil sample contained polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), and arsenic in excess of Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) (TtNUS, 2002).

In January 2002, TtNUS collected three surface soil samples (0 to 1 foot below land surface [bls]) and one subsurface (1 to 2 feet bls) soil sample in an effort to delineate the extent of contaminated soil previously detected by surface soil sample MPT-55-SS06-00 (collected at 0 to 1 foot bls). Soil samples were also collected within the unlined earthen stormwater conveyance in January 2002. The three surface and one subsurface soil samples contained PCBs, SVOCs, arsenic, and/or pesticides in excess of FDEP SCTLs (TtNUS, 2002). Figure 1-3 includes the historical delineation soil sample locations and Appendix B contains the Group

IV Soil Delineation Sampling Effort Letter Report documenting the TtNUS January 2002 soil sampling event.

Since constituents were detected above FDEP SCTLs in each of the historical soil samples, TtNUS recommended additional sampling along the stormwater conveyance be conducted to fully delineate the extent of contaminated soil. Based on the results of the recommended sampling, an interim measure (IM) may be justified to remove the contaminated soil within the unlined earthen stormwater conveyance.

1.2 Contaminated Soil Delineation and Evaluation

1.2.1 Centerline Delineation and Evaluation

The initial contaminated soil delineation sampling event was completed by CH2M HILL on October 6, 2004, and included collecting five surface soil samples (0 to 1 foot bls) along the centerline of the bottom of the stormwater conveyance. The surface soil sample locations are labeled as 191SS01 through 191SS05 and the sample locations laboratory analyzed are shown on Figure 1-3. The purpose of these soil samples was to provide the extent of contamination within the stormwater conveyance. The soil samples were analyzed sequentially by the laboratory (that is, every 3 days) for pesticides by U.S. Environmental Protection Agency (USEPA) Method 8081A; PCBs by USEPA Method 8082; SVOCs by USEPA Method 8270C; and metals by USEPA Method 6010B.

Soil sample 191SS01 was analyzed first and laboratory analytical results showed mercury (0.025 milligrams per kilogram [mg/kg]) and PCBs (0.0149 mg/kg) in excess of FDEP Leachability based on Surface Water Criteria SCTLs. Due to SCTL exceedance, soil sample 191SS02 was analyzed next and laboratory analytical results showed mercury (0.026 mg/kg), PCBs (0.13 mg/kg), and endosulfan II (0.00971 mg/kg) in excess of FDEP Leachability based on Surface Water Criteria SCTLs.

Based only on FDEP Leachability based on Surface Water Criteria SCTLs being exceeded in soil samples 191SS01 and 191SS02, the NS Mayport Partnering Team reached consensus by electronic mail on October 20, 2004 on the following:

- Delineation of additional, already collected samples along the ditch centerline is not needed.
- CH2M HILL has determined ditch centerline extent of potential contamination.
- Lateral and vertical delineation is still needed.
- Exceedance of FDEP Leachability based on Surface Water Criteria SCTLs is noted but due to a lack of surface water to sample, the leachability is not considered an issue. Additionally, the constituents that exceed Leachability based on Surface Water Criteria SCTLs do not exceed Leachability based on Groundwater Criteria SCTLs and are not found in the groundwater samples from the area.
- The lack of surface water is also important because the Surface Water Criteria SCTLs are based on risks derived from fish uptake and subsequent human ingestion. With no

surface water to sample and no fish to potentially uptake any constituents, there is no risk to calculate.

- If the additional delineation of the ditch area is able to identify "hot spots" to be removed and the remaining soil is below FDEP Direct Exposure-Residential SCTLs, then the ditch should require no additional action.

Because of the team consensus, soil samples 191SS03, 191SS04, and 191SS05 were not analyzed by the laboratory and soil sample location 191SS01 will be used as the extent of contaminated soil along the centerline of the bottom of the stormwater conveyance. The laboratory analytical results are summarized in Table 1-1 and the laboratory analytical reports are provided in Appendix C.

1.2.2 Lateral and Vertical Delineation and Evaluation

The second contaminated soil delineation sampling event was completed by CH2M HILL on October 28, 2004, and included collecting four subsurface soil samples to determine the depth of soil contamination along the centerline of the stormwater conveyance and eight surface soil samples to the north and south of the stormwater conveyance at the midpoint and top of the conveyance slope to delineate the lateral extent of contaminated soil.

Subsurface soil samples, labeled as 191SS6A, 191SS6B, 191SS7A, and 191SS7B, are shown on Figure 1-3. Soil samples 191SS6A and 191SS7A were collected from 2 to 3 feet bls and laboratory analyzed for pesticides by USEPA Method 8081A, PCBs by USEPA Method 8082, SVOCs by USEPA Method 8270C, and metals by USEPA Method 6010B. Laboratory analytical results for soil samples 191SS6A and 191SS7A showed no SCTL exceedance, therefore, the vertical extent of contaminated soil was determined to be 3 feet bls and the deeper soil samples 191SS6B and 191SS7B (collected from 3 to 4 feet bls) were not required for laboratory analysis. The laboratory analytical results are summarized in Table 1-1 and the laboratory analytical reports are provided in Appendix C.

The eight surface soil samples (collected from 0 to 1 foot bls) are labeled as 191SS08 through 191SS15 and the sample locations laboratory analyzed are shown on Figure 1-3. Initially, soil samples 191SS08 through 191SS11 were laboratory analyzed for pesticides by USEPA Method 8081A, PCBs by USEPA Method 8082, SVOCs by USEPA Method 8270C, and metals by USEPA Method 6010B. Laboratory analytical results for soil samples 191SS08, 191SS09, and 191SS11 showed no FDEP Direct Exposure-Residential SCTL exceedances; therefore, samples collected further in these respective directions were not required for laboratory analysis. Laboratory analytical results for soil sample 191SS10 showed benzo(a)anthracene (2.17 mg/kg), benzo(a)pyrene (2.6 mg/kg), and indeno(1,2,3-cd)pyrene (1.83 mg/kg) in excess of FDEP Direct Exposure-Residential SCTLs; therefore, soil sample 191SS14 was laboratory analyzed for pesticides by USEPA Method 8081, PCBs by USEPA Method 8082, SVOCs by USEPA Method 8270C, and metals by USEPA Method 6010B. Laboratory analytical results for soil sample 191SS14 showed no FDEP Direct Exposure-Residential SCTL exceedance. The laboratory analytical results are summarized in Table 1-1 and the laboratory analytical reports are provided in Appendix C.

Based on the surface soil samples analyzed, the lateral extent of contaminated soil is determined by soil sample locations 191SS08, 191SS09, 191SS11, and 191SS14.

1.2.3 Contaminated Soil Delineation Evaluation Conclusions

In accordance with the recommendations outlined in the AOC C RFI (TtNUS, 2003), CH2M HILL delineated the extent of soil contamination within and along the stormwater conveyance northwest of Building 191. Evaluation of the analytical results show:

- Soil sample location 191SS01 is the extent of contaminated soil along the centerline of the bottom of the stormwater conveyance.
- The vertical extent of contaminated soil is determined to be 3 feet bls by soil sample locations 191SS6A and 191SS7A.
- The lateral extent of contaminated soil is determined by soil sample locations 191SS08, 191SS09, 191SS11, and 191SS14.

Because removal of approximately 90 cubic yards (135 tons) of contaminated soil within and along the unlined earthen stormwater conveyance will result in remaining soil being below FDEP Direct Exposure-Residential SCTLs, an IM removal action is recommended to achieve No Further Action status for the stormwater conveyance northwest of Building 191. Section 2.0 of this Action Memorandum provides the IM Removal Design.

TABLE 1-1
Delineation Soil Laboratory Analytical Result Summary

		Station ID	191SS01	191SS02	191SS08	191SS09	191SS10	191SS11	191SS14	191SS6A	191SS7A
		Sample ID	21SS01S041006	21SS02S041006	21SS08S041028	21SS09S041028	21SS10S041028	21SS11S041028	21SS14S041028	21SS6AS041028	21SS7AS041028
		Sample Date	10/6/2004	10/6/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004
		Units in mg/kg									
Parameter	DE-Residential SCTL[1]	Leachability/ FWSW[1]									
SW6010B											
Aluminum	72000	***	364 J	431	218 B	387 B	815 B	934 B	258 B	116 B	141 JB
Antimony	26	***	2.91 U	2.95 U	2.46 U	2.6 U	2.83 U	0.75 J	2.47 U	2.98 U	2.85 UJ
Arsenic*	0.8	***	1.94 U	1.97 U	1.64 U	1.73 U	1.88 U	0.48 JB	1.65 U	1.99 U	1.9 U
Barium	110**	***	2.86 JB	3.37 JB	7.22	5.39	9.87	16	7.71	4.74	5.43
Beryllium	0.8	***	0.11 JB	0.074 JB	0.038 J	0.054 J	0.062 J	0.056 J	0.066 J	0.01 J	0.016 J
Cadmium	75**	***	0.048 J	0.05 J	0.096 B	0.21 B	0.48 B	0.32 B	0.067 B	0.022 B	0.024 B
Calcium	NA	NA	1700 JB	1580 JB	2790 JB	2240 JB	3580 JB	1850 JB	1150 JB	232 JB	100 JB
Chromium, total	NA	NA	2 JB	2.25 JB	1.61	4.64	5.51	3.96	1.62	0.86	1.16
Cobalt*	4700	NA	0.14 JB	0.11 JB	0.055 J	0.14 J	0.35 J	0.29 J	0.14 J	0.5 U	0.48 U
Copper	110**	***	2.29 J	3.36	3.11	7.11	19.7	44.1	2.29	0.86 J	0.9
Iron	23000	***	532 JB	534 JB	367 JB	697 JB	1060 JB	1370 JB	597 JB	92.7 JB	85.9 JB
Lead	400	***	26.3 J	35.3 B	14.9	67.8	37.3	53.4	11.3	2.68 J	1.75
Magnesium	NA	NA	69.7 J	78.2 B	54.5	128	157	217	49.5	8.08 J	10.3
Manganese	1600	NA	4.1 JB	4.47 JB	8.49 JB	5.84 JB	22.2 JB	20.4 JB	8.11 JB	1.94 JB	0.8 JB
Nickel	110**	***	0.45 J	0.96 B	0.4 JB	1.3 JB	3.21 JB	1.88 JB	0.43 JB	0.25 JB	0.11 JB
Potassium	NA	NA	16.7 J	43.3 B	21.3 JB	29.9 JB	30.7 JB	33.1 JB	25.3 JB	13.4 JB	16.4 JB
Selenium	390	***	1.94 U	1.97 U	1.64 U	1.73 U	1.88 U	1.72 U	1.65 U	1.99 U	1.9 U
Silver	390	***	0.49 U	0.49 U	0.41 U	0.43 U	0.47 U	0.43 U	0.41 U	0.5 U	0.033 B
Sodium	NA	NA	27.6 JB	51.6 JB	28 JB	21.9 JB	25.9 JB	27.3 JB	23.4 JB	15.3 JB	14.5 JB
Thallium	NA	NA	0.52 JB	0.34 JB	0.35 B	0.32 B	0.26 B	0.47 B	0.19 B	0.27 B	0.33 B
Vanadium	15**	NA	0.88 J	1.36	1.23	1.72	5.92	2.24	1.38	0.6 J	0.77 J
Zinc	23000	***	12.1 J	15.4	24.1	43.7	143	111	17.8	7.66 J	6.55
SW7471											
Mercury*	3.4	0.01	0.025 JB	0.026 JB	0.014 B	0.025 B	0.039 B	0.035 B	0.016 B	0.012 U	0.012 U
SW8081A											
Aldrin	0.07	0.01	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
alpha bhc (alpha hexachlorocyclohexane)*	0.2	0.0006	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
alpha endosulfan	NA	NA	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
alpha-chlordane	NA	NA	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
beta bhc (beta hexachlorocyclohexane)*	0.6	0.003	0.00485 U	0.00492 U	0.00413 U	0.00433 U	0.00471 U	0.00867 U	0.00415 U	0.00497 U	0.00475 U
beta endosulfan	NA	NA	0.00485 U	0.00971 J	0.00112 J	0.00238 J	0.0117 J	0.00155 J	0.00415 U	0.00497 U	0.00475 U
DDD	4.6	0.1	0.00485 U	0.00492 U	0.00264 J	0.00433 U	0.0227 J	0.00838 J	0.00415 U	0.00497 U	0.00475 U
DDE	3.3	0.1	0.00485 U	0.00167 J	0.00715 J	0.00208 J	0.00471 U	0.0848 J	0.00155 J	0.00497 U	0.00475 U
DDT	3.3	0.06	0.00485 U	0.00492 UJ	0.00604 J	0.00433 U	0.0214 J	0.0546	0.00119 J	0.00497 U	0.00475 U
delta bhc (delta hexachlorocyclohexane)*	22	NA	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
Dieldrin*	0.07	0.0001	0.00485 U	0.00492 U	0.00413 U	0.00433 U	0.00471 U	0.00867 U	0.00415 U	0.00497 U	0.00475 U
endosulfan sulfate	NA	NA	0.00485 U	0.00492 U	0.00413 U	0.00433 U	0.00386 J	0.00867 UJ	0.00415 U	0.00497 U	0.00475 U
endrin*	21	0.001	0.00485 U	0.00492 U	0.00413 U	0.00433 U	0.00471 U	0.00867 U	0.00415 U	0.00497 U	0.00475 U
endrin aldehyde	NA	NA	0.00485 U	0.00492 UJ	0.00413 U	0.00433 U	0.00518 J	0.00867 U	0.00415 U	0.00497 U	0.00475 U
endrin ketone	NA	NA	0.00485 U	0.00492 U	0.00413 U	0.00433 U	0.00471 U	0.00867 U	0.00415 U	0.00497 U	0.00475 U
gamma bhc (lindane)*	0.7	0.003	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
gamma-chlordane	NA	NA	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
heptachlor	0.2	0.1	0.00243 U	0.00246 U	0.00206 U	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
heptachlor epoxide	0.1	0.006	0.00243 U	0.00246 U	0.00206 UJ	0.00217 U	0.00236 U	0.00433 U	0.00208 U	0.00248 U	0.00238 U
methoxychlor	370	0.1	0.0243 U	0.0246 U	0.0206 U	0.0217 U	0.0236 U	0.0433 U	0.0208 U	0.0248 U	0.0238 U
toxaphene*	1	0.002	0.243 U	0.246 U	0.206 U	0.217 U	0.236 U	0.433 U	0.208 U	0.248 U	0.238 U
SW8082											
Aroclor-1016	Arochlor Mix (0.5)	Arochlor Mix (0.002)	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U
Aroclor-1221	NA	NA	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U
Aroclor-1232	NA	NA	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U
Aroclor-1242	NA	NA	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U

TABLE 1-1
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		Station ID	191SS01	191SS02	191SS08	191SS09	191SS10	191SS11	191SS14	191SS6A	191SS7A
		Sample ID	21SS01S041006	21SS02S041006	21SS08S041028	21SS09S041028	21SS10S041028	21SS11S041028	21SS14S041028	21SS6AS041028	21SS7AS041028
		Sample Date	10/6/2004	10/6/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004
		Units in mg/kg									
Parameter	DE-Residential SCTL[1]	Leachability/ FWSW[1]									
Aroclor-1248	NA	NA	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U
Aroclor-1254	NA	NA	0.0485 U	0.0492 U	0.0413 U	0.0433 U	0.0471 U	0.0433 U	0.0415 U	0.0497 U	0.0475 U
Aroclor-1260	NA	NA	0.0149 J	0.13	0.0679 J	0.195 J	0.15 J	0.0781 J	0.0415 U	0.0497 U	0.0475 U
SW8270C											
1-methylnaphthalene	68	10	0.00801 U	0.00812 U	0.00681 U	0.00715 U	0.0233 U	0.00715 U	0.00685 U	0.0082 U	0.00784 U
2,4,5-Trichlorophenol	6000	1.5	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2,4,6-Trichlorophenol*	72	0.1	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2,4-Dichlorophenol*	130	0.1	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2,4-Dimethylphenol	910	3.2	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2,4-Dinitrophenol*	66	0.01	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 U	1.96 U
2,4-Dinitrotoluene*	1.3	0.07	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2,6-Dinitrotoluene*	1	0.03	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2-Chloronaphthalene*	4000	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2-Chlorophenol	82	2.5	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2-Methylnaphthalene	80	9.1	0.00801 U	0.00812 U	0.00681 U	0.00715 U	0.0233 U	0.00715 U	0.00685 U	0.0082 U	0.00784 U
2-Methylphenol (o-Cresol)	2400	1.9	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
2-Nitroaniline*	5.7	NA			1.7 UJ	1.79 UJ	5.83 UJ	1.79 UJ	1.71 UJ	2.05 UJ	1.96 UJ
2-Nitrophenol	NA	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
3,3'-Dichlorobenzidine*	2.1	0.002	0.801 U	0.812 U	0.681 U	0.715 U	2.33 U	0.715 U	0.685 U	0.82 U	0.784 U
3-Nitroaniline	NA	NA	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 U	1.96 U
4,6-Dinitro-2-methylphenol	NA	NA	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 U	1.96 U
4-Bromophenyl phenyl ether	NA	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
4-Chloro-3-methylphenol	410	0.6	0.401 UJ	0.406 UJ	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
4-Chloroaniline*	190	0.02	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
4-Chlorophenyl phenyl ether	NA	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
4-Nitroaniline	5.2	5.9	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 U	1.96 U
4-Nitrophenol*	390	0.3	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 UJ	1.96 U
Acenaphthene	1900	0.7	0.0401 U	0.0406 U	0.0341 U	0.0357 U	0.117 U	0.0358 U	0.0342 U	0.041 U	0.0392 U
Acenaphthylene	1100	0.7	0.0401 U	0.0406 U	0.0341 U	0.0357 U	0.151	0.0358 U	0.0342 U	0.041 U	0.0392 U
Acetophenone	2700	44	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Anthracene	18000	0.7	0.0401 U	0.0406 U	0.0129 J	0.00748 J	0.272	0.0126 J	0.0342 U	0.041 U	0.0392 U
Atrazine*	4	0.04	0.801 U	0.812 U	0.681 UJ	0.715 UJ	2.33 UJ	0.715 UJ	0.685 UJ	0.82 UJ	0.784 UJ
Benzo(a)anthracene	1.4	0.7	0.0598 J	0.0835	0.0679	0.0563	**2.17**	0.0972	0.0352	0.0082 U	0.029
Benzo(a)pyrene	0.1	1.2	0.00801 U	0.036	0.0618	0.0431	**2.6**	0.0939	0.0292	0.0082 U	0.00784 U
Benzo(b)fluoranthene	1.4	1.6	0.00801 U	0.0513	0.118	0.0605	0.0233 U	0.125	0.0404	0.0082 U	0.00784 U
Benzo(g,h,i)perylene	2300	4.8	0.00937 J	0.045	0.0854	0.0533	1.66	0.13	0.0265 J	0.041 U	0.0392 U
Benzo(k)fluoranthene	15	1.6	0.00801 U	0.0477	0.0562	0.0376	5.72	0.0861	0.0201	0.0082 U	0.00784 U
Benzyl butyl phthalate	15000	56	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
biphenyl (diphenyl)	2300	5.8	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Bis(2-Chloroethoxy) methane	NA	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
bis(2-Chloroethyl) ether (2-Chloroethyl ether)*	0.3	0.05	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
bis(2-Chloroisopropyl) ether	NA	NA	0.401 UJ	0.406 UJ	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
bis(2-Ethylhexyl) phthalate	76	12	0.401 U	0.0277 J	0.0417 B	0.018 B	0.0632 B	0.0166 B	0.0143 B	0.41 U	0.02 B
caprolactam	NA	NA	0.401 U	0.406 U	0.341 UJ	0.357 UJ	1.17 UJ	0.358 UJ	0.342 UJ	0.41 UJ	0.392 UJ
Carbazole	53	6.5	0.401 U	0.406 U	0.00938 J	0.00797 J	0.271 J	0.0117 J	0.342 U	0.41 U	0.392 U
Chrysene	140	0.7	0.0401 U	0.0484	0.0731	0.0462	3.13	0.116	0.0342 U	0.041 U	0.0392 U
cresols, m & p	NA	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Di-n-butyl phthalate	7300	1.5	0.401 U	0.406 U	0.0119 J	0.0114 J	1.17 U	0.358 U	0.342 U	0.41 U	0.0147 J
Di-n-octylphthalate*	1500	NA	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Dibenz(a,h)anthracene	0.1	4.7	0.00801 U	0.00812 U	0.00681 UJ	0.00715 UJ	0.0233 UJ	0.00715 UJ	0.0118 J	0.0082 UJ	0.00784 UJ
Dibenzofuran	280	36	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Diethyl phthalate	54000	5.9	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U

TABLE 1-1
Delineation Soil Laboratory Analytical Result Summary

		Station ID	191SS01	191SS02	191SS08	191SS09	191SS10	191SS11	191SS14	191SS6A	191SS7A
		Sample ID	21SS01S041006	21SS02S041006	21SS08S041028	21SS09S041028	21SS10S041028	21SS11S041028	21SS14S041028	21SS6AS041028	21SS7AS041028
		Sample Date	10/6/2004	10/6/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004
		Units in mg/kg									
Parameter	DE-Residential SCTL[1]	Leachability/ FWSW[1]									
Dimethyl phthalate	590000	7.8	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Fluoranthene	2900	1.3	0.0401 U	0.0654	0.0763	0.0579	4	0.153	0.0127 J	0.041 U	0.0392 U
Fluorene	2200	17	0.0401 U	0.0406 U	0.0341 U	0.0357 U	0.0475 J	0.0358 U	0.0342 U	0.041 U	0.0392 U
Hexachlorobenzene*	0.5	0.0008	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Hexachlorobutadiene	6.3	110	0.401 U	0.406 U	0.341 UJ	0.357 UJ	1.17 UJ	0.358 UJ	0.342 UJ	0.41 UJ	0.392 UJ
Hexachlorocyclopentadiene	2.4	24	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 UJ	0.392 U
Hexachloroethane*	34	0.08	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Indeno(1,2,3-c,d)pyrene	1.5	4.3	0.108 J	0.133	0.164	0.147	**1.83**	0.209	0.128	0.134	0.00784 U
Isophorone	340	3.8	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
n-Nitrosodi-n-propylamine*	0.09	0.008	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
n-Nitrosodiphenylamine	170	2.5	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Naphthalene	40	2.2	0.0401 U	0.0406 U	0.0341 U	0.0357 U	0.117 U	0.0358 U	0.0342 U	0.041 U	0.0392 U
Nitrobenzene	14	0.6	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Pentachlorophenol*	7.7	0.2	2 U	2.03 U	1.7 U	1.79 U	5.83 U	1.79 U	1.71 U	2.05 U	1.96 U
Phenanthrene	2000	0.7	0.0401 U	0.0219 J	0.0131 J	0.0149 J	0.571	0.0271 J	0.0342 U	0.041 U	0.0392 U
Phenol*	900**	0.03	0.401 U	0.406 U	0.341 U	0.357 U	1.17 U	0.358 U	0.342 U	0.41 U	0.392 U
Pyrene	2200	1.3	0.0401 U	0.0552	0.0696	0.0456	2.56	0.112	0.0195 J	0.041 U	0.0392 U

Notes:

All concentrations reported in micrograms per kilogram (mg/kg) unless otherwise noted.

1 = Ch 62-777 F.A.C Soil Cleanup Target Level (SCTLs) reported

U - The analyte was analyzed for , but not detected.

J - Result is estimated

B-The analyte was detected in the associated method and/or calibration blank.

UJ- Value non-detected estimated.

JB- Estimate value..The analyte was detected in the associated method and/or calibration blank.

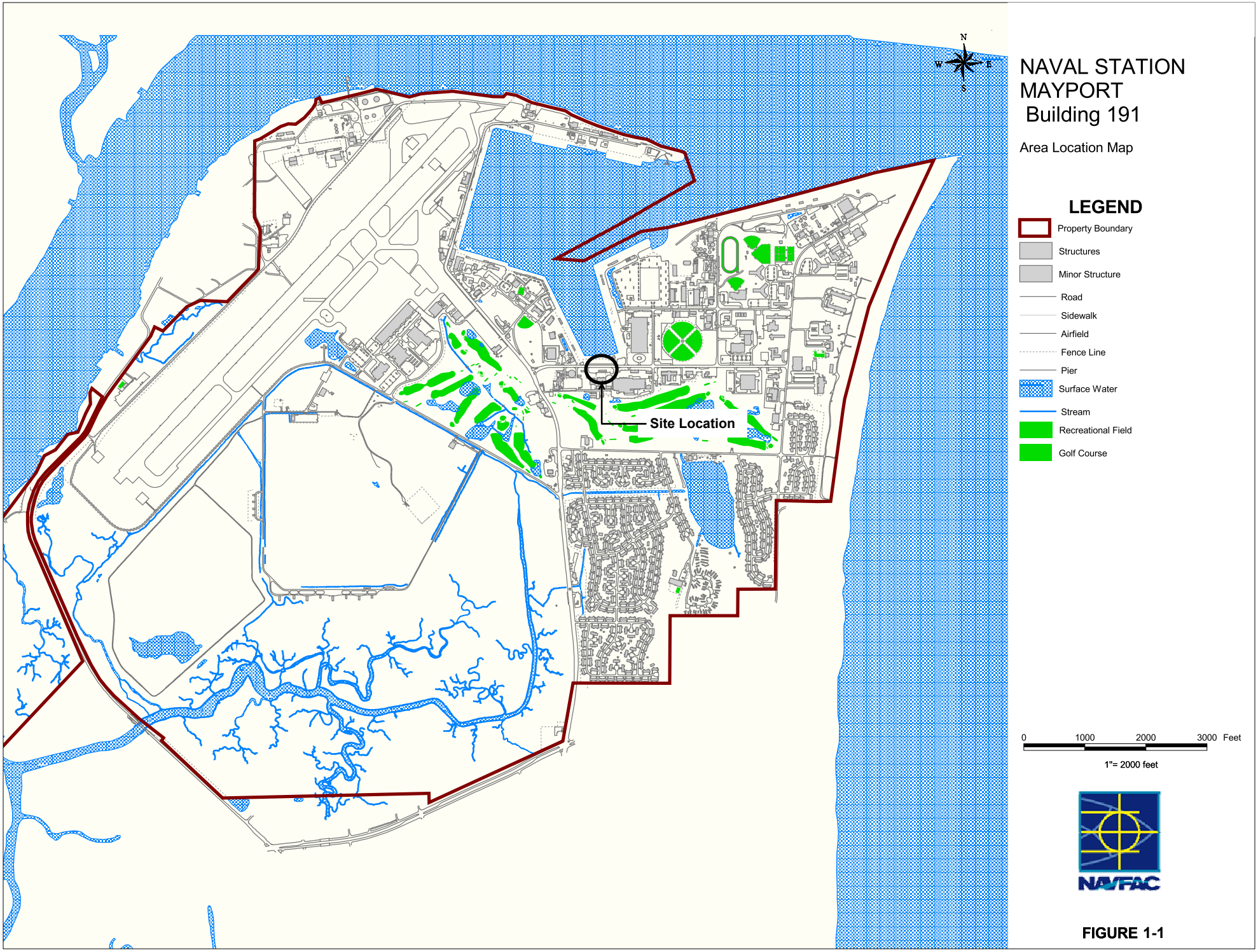
Bold values indicates concentration exceeds Residential Direct Exposure Limit

Shaded values indicate compounds that exceed Leachability based on Freshwater Surface Water Criteria

Bold and Shaded values indicate compounds that exceed both SCTL and Leachability based on Freshwater Surface Water Criteria

NA - Not Available at time of rule adoption

* Compound was analyzed using best developed available technology (BDAT), lower reporting or detection limits are not achievable by current technology.



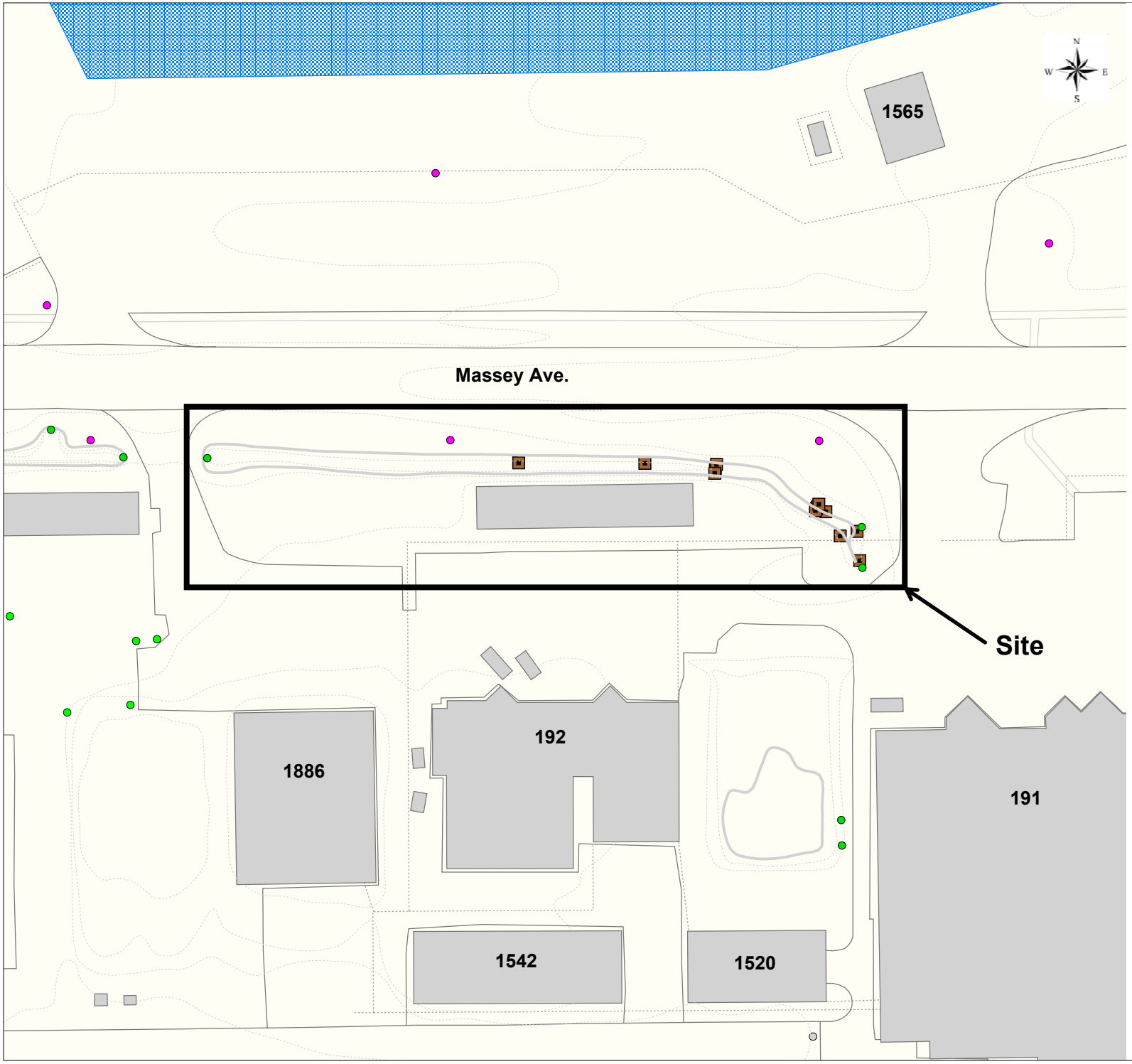
NAVAL STATION
MAYPORT
Building 191

Area Location Map

FIGURE 1-1

This graphic was generated using the TtNUS EGIS module

Plot date: Jan 26, 2005; U:\apr\EGIS_Mayport_NS.apr



NAVAL STATION MAYPORT
Building 191

Site Location Map

LEGEND

- Tree
- Storm Sewer
- Pole
- Culvert
- Fuel Pipe
- Substation
- Antenna
- Elevation Contour
  - Index
  - Intermediate
- General Improvement
- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

0 25 50 75 100 Feet

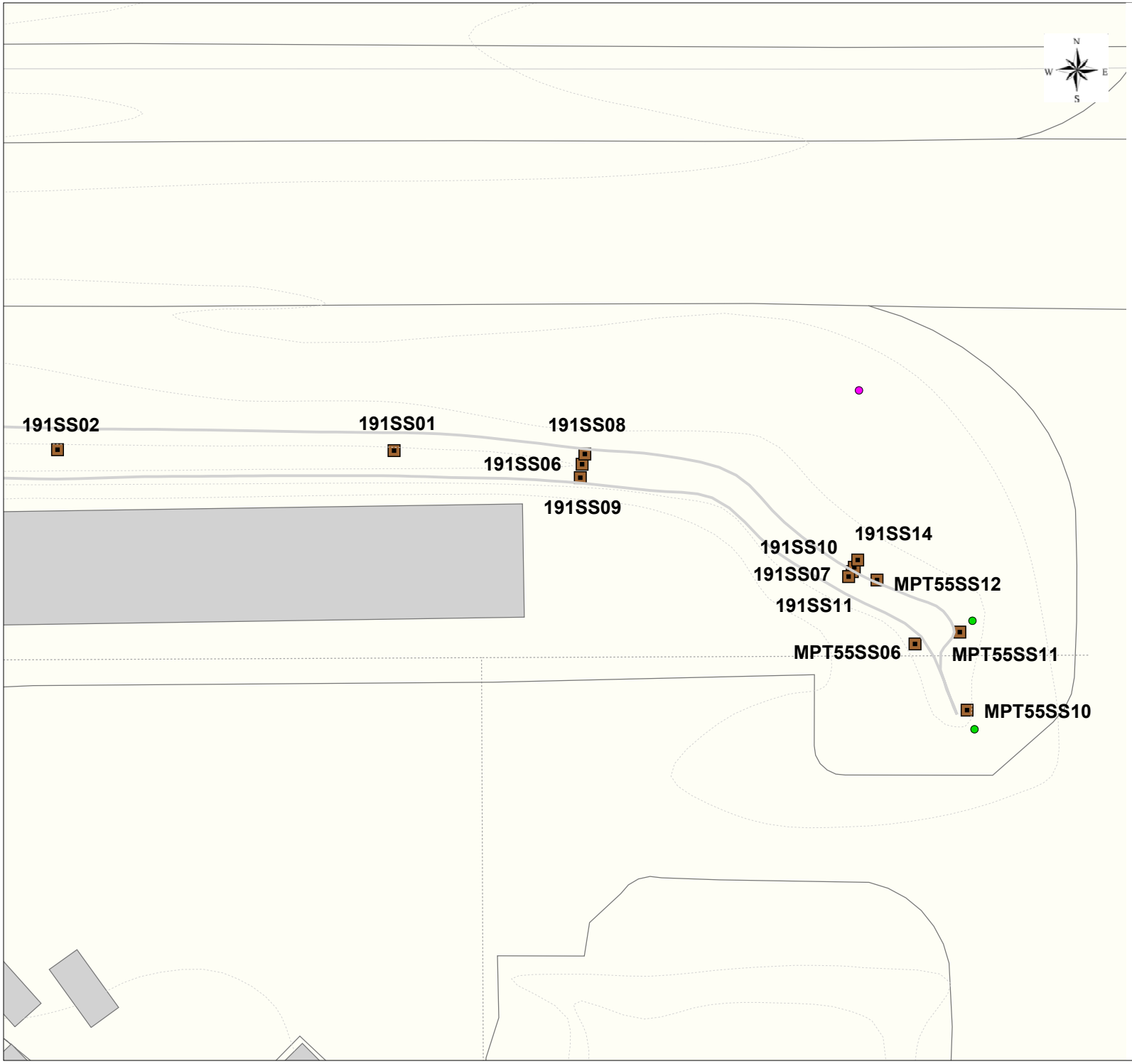
1"= 80 feet

NAVFAC

FIGURE 1-2

This graphic was generated using the TtNUS EGIS module

Plot date: Jan 26, 2005; U:\apr\EGIS_Mayport_NS.apr



NAVAL STATION MAYPORT
Building 191

Soil Sample Location Map

LEGEND

- Tree
- Storm Sewer
- Pole
- Culvert
- Fuel Pipe
- Substation
- Antenna

Elevation Contour

- Index
- Intermediate
- General Improvement
- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

0 25 50 Feet

1"= 30 feet

NAVFAC

FIGURE 1-3

This graphic was generated using the TtNUS EGIS module

Plot date: Jan 26, 2005; U:\apr\EGIS_Mayport_NS.apr

2.0 Removal Design

2.1 Guidance Information

The following information is provided for general guidance purposes only. The approximate area of excavation is shown on Figure 2-1. An estimated 90 cubic yards (135 tons) of contaminated soil from within and along the unlined earthen stormwater conveyance is required to be removed during the IM excavation. The actual extent of the excavation will be field verified by CH2M HILL prior to excavation. Analytical results and survey data identifying the area requiring removal are provided in Tables 1-1 and 2-1.

2.1.1 Endangered Species Protection

An endangered species survey was conducted by contacting Forest Penny, NS Mayport Natural Resources on August 9, 2004, and no endangered species are present at the site. The endangered species survey will be re-verified by the Excavation Contractor prior to site work.

2.1.2 Regulatory Drivers

Remedial activities at Building 191 are regulated under RCRA; FDEP; and the Toxic Substances Control Act (TSCA), 40 Code of Federal Regulations (CFR) 761.

2.1.3 Excavation Contractor Responsibilities

The excavation contractor will be responsible for the following:

- Schedule and methods of excavation.
- All aspects of work site health and safety.
- Marking by site survey the actual extent of the excavation with marking paint and/or pin flags.
- Identification and avoidance of all aboveground and underground utilities or other manmade structures. An Excavation Permit is required prior to excavation and the Permit will be coordinated through the NS Mayport Environmental Division.
- Prior to excavation, Site Controls, including construction barricades and security fencing, will be installed around the work area.
- Erosion control measures will be implemented if soil is stockpiled or an excavation remains open overnight. Plastic sheeting, silt fencing, and hay bales will be available on site should weather conditions warrant covering and berming stockpiled material to control runoff or dust emissions.
- Waste characterization, transport (both on and offsite), and disposal of all excavated soil and all wastes generated during excavation.

- Notification of CH2M HILL and the Navy if observations indicate contaminants may extend beyond the planned lateral or vertical limits of excavation.
- Except where necessary for the avoidance of structures or utilities, or where otherwise specified by CH2M HILL, the depth of the excavation should be 3 feet bls.
- Excavated soil will be stockpiled on, and covered with, heavy-duty polyethylene sheeting at the site. This will be done in a manner to avoid the potential for contaminating surrounding soil or surface water. Alternatively, soil may be stockpiled in properly lined and covered roll-off containers.
- Materials used to backfill the excavation will be from an uncontaminated source and capable of supporting the same type of vegetation as the removed soil. The ground surface and the stormwater conveyance will be restored to a similar or better condition than existed prior to the excavation. The stormwater conveyance will be restored and graded to allow unrestrained flow from east to west.

TABLE 2-1
Interim Measures Soil Removal Survey Data

ARC SURVEYING & MAPPING INC. 12/16/2004

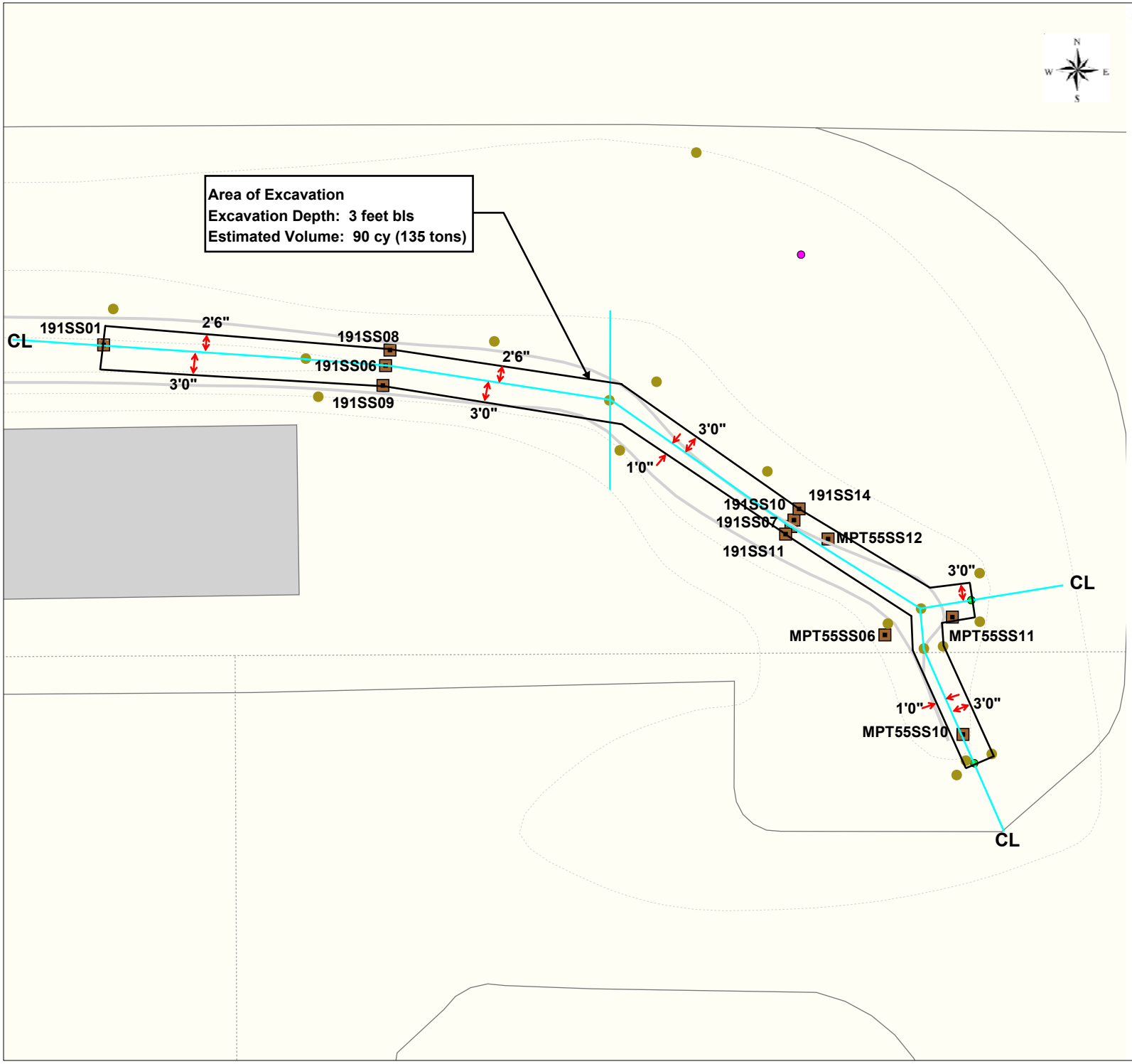
POINTS COLLECTED FOR CH2MHILL AT MAYPORT NAVAL STATION
JACKSONVILLE, FLORIDA
DATE OF SURVEY 12/15/04

POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION	Sample ID
	NAD 83/90		NAVD 88		
1	2201198.70	527423.06	6.88	START ARC1	--
2	2201198.74	527156.60	6.13	SET IP W/CAP ARC2	--
3	2201126.33	527459.23	6.12	Top of Bank	--
4	2201129.94	527464.62	6.48	Top of Bank	--
5	2201137.07	527464.58	6.35	Top of Bank	--
6	2201151.97	527433.47	5.97	Top of Bank	--
7	2201165.11	527417.22	6.09	Top of Bank	--
8	2201171.04	527393.43	6.33	Top of Bank	--
9	2201175.79	527337.58	5.79	Top of Bank	--
10	2201177.06	527279.24	6.00	Top of Bank	--
11	2201173.97	527219.99	5.31	Top of Bank	--
12	2201175.63	527163.48	4.92	Top of Bank	--
13	2201180.12	527077.57	5.32	Top of Bank	--
14	2201166.28	527078.85	5.59	Top of Bank	--
15	2201165.22	527155.41	5.05	Top of Bank	--
16	2201161.67	527210.43	5.84	Top of Bank	--
17	2201163.95	527265.13	6.69	Top of Bank	--
18	2201164.02	527319.58	6.70	Top of Bank	--
19	2201162.92	527367.64	6.73	Top of Bank	--
20	2201155.07	527411.83	6.32	Top of Bank	--
21	2201129.68	527451.14	6.06	Top of Bank	--
22	2201107.47	527461.21	6.27	Top of Bank	--
23	2201110.57	527466.37	5.99	Top of Bank	--
24	2201109.59	527462.59	5.07	Ditch Centerline	--
25	2201125.99	527456.42	5.07	Ditch Centerline	--
26	2201131.86	527455.99	5.12	Ditch Centerline	--
27	2201162.40	527410.29	4.73	Ditch Centerline	--
28	2201168.51	527365.81	4.53	Ditch Centerline	--
29	2201170.71	527311.28	4.04	Ditch Centerline	--
30	2201170.95	527253.22	4.05	Ditch Centerline	--
31	2201168.69	527195.19	3.78	Ditch Centerline	--
32	2201171.19	527156.83	3.59	Ditch Centerline	--
33	2201173.30	527082.61	10.37	Ditch Centerline	--
34	2201173.23	527082.61	10.38	191SS05	21SS05S041006
35	2201173.13	527133.40	3.82	191SS04	21SS04S041006
36	2201168.28	527204.69	3.94	191SS03	21SS03S041006
37	2201170.66	527262.17	4.07	191SS02	21SS02S041006
38	2201170.47	527336.17	4.27	191SS01	21SS01S041006
39	2201162.46	527376.19	6.15	191SS13	21SS13S041028
40	2201164.53	527377.12	5.29	191SS09	21SS09S041028
41	2201167.46	527377.51	4.53	191SS06	21SS06S041028
42	2201169.73	527378.14	4.97	191SS08	21SS08S041028
43	2201171.91	527377.96	5.75	191SS12	21SS12S041028
44	2201140.74	527434.79	5.87	191SS15	21SS15S041028
45	2201142.75	527436.13	5.22	191SS11	21SS11S041028
46	2201143.87	527436.90	4.86	191SS07	21SS07S041028
47	2201144.82	527437.35	5.08	191SS10	21SS10S041028
48	2201146.44	527438.12	5.64	191SS14	21SS14S041028

TETRA TECH, INC.

NAVAL STATION MAYPORT BUILDING 191

EXCAVATION PLAN



LEGEND

- Ditch Points
- Tree
- Storm Sewer
- Pole
- Culvert
- Fuel Pipe
- Antenna

Elevation Contour

- Index
- Intermediate
- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

Notes:
1. CL - Ditch Centerline
2. Locations for MPT55SS06, MPT55SS10, MPT55SS11, and MPT55SS12 are approximate and not surveyed.

0 25 Feet

1"= 20 feet

NAVFAC

FIGURE 2-1

This graphic was generated using the TtNUS EGIS module

Plot date: Feb 17, 2005; U:\apr\EGIS_Mayport_NS.apr

3.0 References

CH2M HILL Constructors, Inc. 2004. Contract Task Order No. 0021, *Work Plan Addendum No. 03, Contaminated Soil Delineation at Building 191, Naval Station Mayport, Mayport, Florida,* August.

Tetra Tech NUS, Inc. 2002. *Group IV Soil Delineation Sampling Effort Letter Report, dated May 13, 2002*.

Tetra Tech NUS, Inc. 2003. CTO 248, *Resource Conservation and Recovery Act Facility Investigation for Area of Concern C, Naval Station Mayport, Mayport, Florida.* August.

Appendix A

Site Photographs

Photograph 1: View of the stormsewer conveyance area (looking south). Former sample location SS06 is at the confluence of the two outlets. Former sample location SS11 is in front of the culvert on the left. Former sample location SS10 is in front of the culvert in the background of the photo and former sample location SS12 is to the right of the photo.

Photograph 2: View of the stormwater conveyance area immediately to the west from the former sample locations (looking west).

Photograph 3: View of the stormwater conveyance area further west of the former sample locations (looking west).

Photograph 4: View of the stormwater conveyance area and the building that runs parallel (looking southwest and standing at intersection of access drive and Massey Avenue).

Photograph 5: View of the stormwater conveyance area and the building that runs parallel (looking east back at the former sample points).

Photograph 6: View of the stormwater conveyance area prior the culvert at the west end of the grass area (looking west).

Photograph 7: View of the stormwater conveyance area at the culvert at the west end of the grass area (looking west).

Photograph 8: View of the stormwater conveyance area at the culvert at the west end of the grass area (looking east).

Appendix B

Group IV Soil Delineation Sampling Effort Letter Report

TETRA TECH NUS, INC.
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(904) 281-0400 ■ FAX (904) 281-0070 ■ www.tetratech.com

Document Tracking Number 02JAX0107

May 13, 2002

Project Number N0123

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Ms. Adrienne Wilson (Code ES31)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order Noumber 0091

Subject: Group IV Soil Delineation Sampling Effort
Group IV, Naval Station Mayport
Mayport, Florida

Dear Ms. Wilson:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this letter report for the referenced Contract Task Order (CTO. This report was prepared for the U.S. Navy Southern Division Naval Facilities Engineering Command, for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. The contents of this report document the results of the additional sampling as recommended in the Area of Concern (AOC) C Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) report, and as agreed upon by the Naval Station (NAVSTA) Mayport Partnering Team.

On January 24, 2002, TtNUS personnel collected three surface and one subsurface soil samples in an effort to delineate contamination previously detected in surface soil sample MPT-55-SS06-00. Sample MPT-55-SS06-00 was originally collected as a part of the Group IV RFI, but was included in the AOC C RFI due to its applicability to the AOC C RFI. It was collected at the confluence of two unlined earthen storm sewer conveyances, one draining the Building 191 area and the other paralleling Massey Avenue. The samples collected for this effort were also within the storm sewer conveyance. Figure 1 presents the sampling area relative to NAVSTA Mayport.

The samples were collected in accordance with applicable SOPs and were shipped under chain-of-custody protocol to a fixed-based laboratory. The samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW-846 8260B, semivolatile organic compounds (SVOCs) by USEPA Method SW-846 8260C, metals by USEPA Method SW-846 6010B, organochlorine pesticides by USEPA Method SW-846 8081A, and polychlorinated biphenyls (PCBs) by USEPA Method SW-846 8082.

SVOCs and PCBs were detected above Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) in the samples collected during this sampling effort. Six SVOCs were detected above SCTLs; five of which were detected above industrial criteria. Each sample had at least one SVOC detected above SCTL industrial criteria. In addition, PCBs were detected in two surface soil samples above SCTL residential criteria. The analytical results are presented in Table 1. Figure 2

presents the analytical results detected above FDEP SCTLs. The results for sample MPT-55-SS06-00 are also provided as a reference.

The horizontal and vertical extents of contamination were not defined during this sampling effort. TtNUS recommends additional sampling along the storm sewer conveyance north of Building 191 and possibly an Interim Measure to remove the soil contamination present in the storm sewer conveyance.

If you have any questions about this submittal, please contact me at (904) 281-0400 or Terry Hansen at (850) 385-9899.

Regards,

Thomas N. Thompson

pc: J. Cason, FDEP – 2 hardcopies, 1 CD
C. Mitchell, NAVSTA Mayport – 1 hardcopy, 1 CD
J. Beason, NS Jacksonville – 1 hardcopy, 1 CD
M. Halil, JA Jones – 1 CD
M. Perry, TtNUS – 1 hardcopy (unbound)
D. Wroblewski, TtNUS – cover letter only)
File Copy

Tables

Table 1
AOC C Soil Delineation Analytical Results

Building 191 Soil Delineation
Naval Station Mayport
Mayport, Florida

Detected Constituents	FDEP SCTLs Residential	FDEP SCTLs Industrial	FDEP SCTLs Leaching	Sample Locations				
				MPT-55-				
				SS06-01	SS06-02	SS10-01	SS11-01	SS12-01
				Aug-00	Jan-01	Jan-01	Jan-01	Jan-01
Pesticides µg/kg (USEPA Method 8081A)								
4,4'-DDD	4,600	18,000	4,000	< 18	30	40	7.3 J	--
4,4'-DDE	3,300	13,000	18,000	14 J	--	--	11	--
4,4'-DDT	3,300	13,000	11,000	--	--	170	--	--
Endosulfan sulfate	--	--	--	< 18	--	--	60	36
Endrin aldehyde	--	--	--	< 18	< 20	--	<9.4	<20
Endrin ketone	--	--	--	< 18	72	360J	66 J	120 J
Polychlorinated Biphenyls µg/kg (USEPA Method 8082)								
Aroclor 1260	500	2,100	17,000	800	400 J	800	620	120 J
Volatile Organics µg/L (USEPA Method 8260B)								
2-Butanone	3,100,000	21,000,000	17,000	< 25	< 25	< 26	< 26	3.8 J
Semivolatile Organics µg/kg (USEPA Method 8270C)								
Anthracene	18,000,000	260,000,000	2,500,000	160 J	130 J	1,800 J	66 J	440 J
Benzo(a)anthracene	1,400	5,000	3,200	2,600	2,500	**32,000**	1,000	**8,000**
Benzo(b)fluoranthene	1,400	4,800	10,000	**5,700**	**6,200**	**69,000**	3,000	**18,000**
Benzo(k)fluoranthene	15,000	52,000	25,000	2,200	2,200	31,000	1,200	10,000
Benzo(ghi)perylene	2,300,000	41,000,000	32,000,000	2,700	2,200	24,000	1,200	6,700
Benzo(a)pyrene	100	500	8,000	**3,500**	**3,500**	**42,000**	**1,600**	**11,000**
bis(2-Ethylhexyl)phthalate	76,000	280,000	3,600,000	< 720	290 J	< 9,400	69 J	< 1,900
Carbazole	53,000	190,000	600	290 J	260 J	2,900 J	97 J	780 J
Chrysene	140,000	450,000	77,000	3,900	4,300	51,000	1,900	13,000
Dibenz(a,h)anthracene	100	500	30,000	730	640 J	7,300 J	310 J	2,000
Di-n-octyl phthalate	1,500,000	27,000,000	480,000,000	< 720	150 J	< 9,400	< 370	< 1,900
Fluoranthene	2,900,000	48,000,000	1,200,000	5,600	5,300	72,000	1800	17,000
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	2,600	2,100	**23,000**	1,100	**6,400**
Phenanthrene	2,000,000	30,000,000	250,000	1,400	1,000	16,000	440	3,300
Pyrene	1,800,000	32,000,000	700,000	4,000	5,300	63,000	2,200	16,000

See notes at end of table.

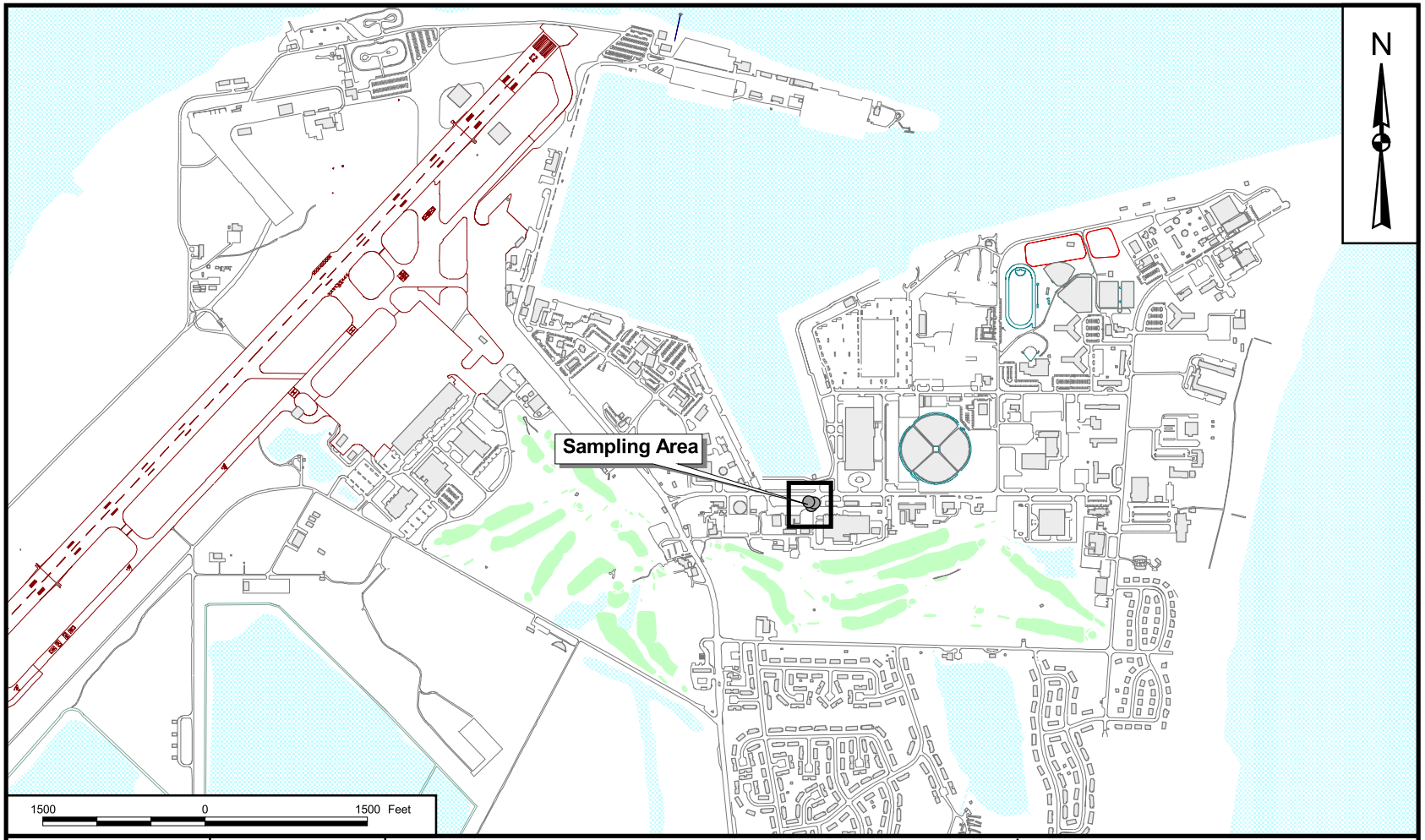
Table 1
AOC C Soil Delineation Analytical Results

Building 191 Soil Delineation
Naval Station Mayport
Mayport, Florida

Detected Constituents	FDEP SCTLs Residential	FDEP SCTLs Industrial	FDEP SCTLs Leaching	Sample Locations				
				MPT-55-				
				SS06-01	SS06-02	SS10-01	SS11-01	SS12-01
				Aug-00	Jan-01	Jan-01	Jan-01	Jan-01
Metals mg/kg (USEPA Method 6010B Mercury Method 7471A)								
Aluminum	72,000,000	--	--	436 J	670	775	794	1,040
Antimony	26,000	240,000	5,000	< 0.34	0.63 J	1.3	1.4	0.92 J
Arsenic	800	240,000	5,000	1.10	0.85	6.7	0.850	1.1
Barium	110,000	87,000,000	1,600,000	10.1	11.4	17.9	11.6	14
Calcium	--	--	--	25,300	19,100	109,000	22,600	30,500
Cadmium	75,000	1,300,000	8,000	0.58	0.65	0.97	0.66	0.84
Cobalt	4,700,000	110,000,000	--	0.54	0.52	2.1 J	0.43	0.69 J
Chromium	210,000	420,000	38,000	5.3	7.8	9.7	5.2	8.5
Copper	110,000	76,000,000	--	30.3	19.0	29.4	16.4	31.3
Iron	23,000,000	480,000,000	--	4,510	1,950	11,200	1,940	2,040
Lead	400,000	920,000	--	89.6	55	56	74.5	59
Potassium	--	--	--	36.3	30.9	50.7	30.3	38.1
Magnesium	--	--	--	485.0	321	1,420	306	439
Manganese	1,600,000	22,000,000	--	25.7	17.7	83.3	18.6	30.2
Nickel	110,000	28,000,000	130,000	< 3.1	17	10.1 J	2.9	5.1
Sodium	--	--	--	< 78.9	64.3	157	120	61.9
Vanadium	15000	7,400,000	980,000	9.6	7.9	13.6	4.8	10.9
Zinc	23,000,000	560,000,000	6,000,000	139 J	159 J	288 J	181 J	236 J

Notes:
Constituents with no value were rejected during the validation process
J - Estimated result. Result is less than RL
SCTLs= Soil Cleanup Target Levels
USEPA = U.S. Environmental Protection Agency
µg/kg = Micrograms per kilogram
µg/L - Micrograms per liter
Highlighted value are above FDEP SCTLs for an residential exposure scenario, Table II, FDEP Chapter 62-777 FAC.
Bold values are above FDEP SCTLs for an industrial exposure scenario, Table II, FDEP Chapter 62-777 FAC.

Figures



DRAWN BY	DATE
A. JANOCHA	05/01/02
CHECKED BY	DATE
T. THOMPSON	05/03/02
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

SAMPLING AREA LOCATION MAP

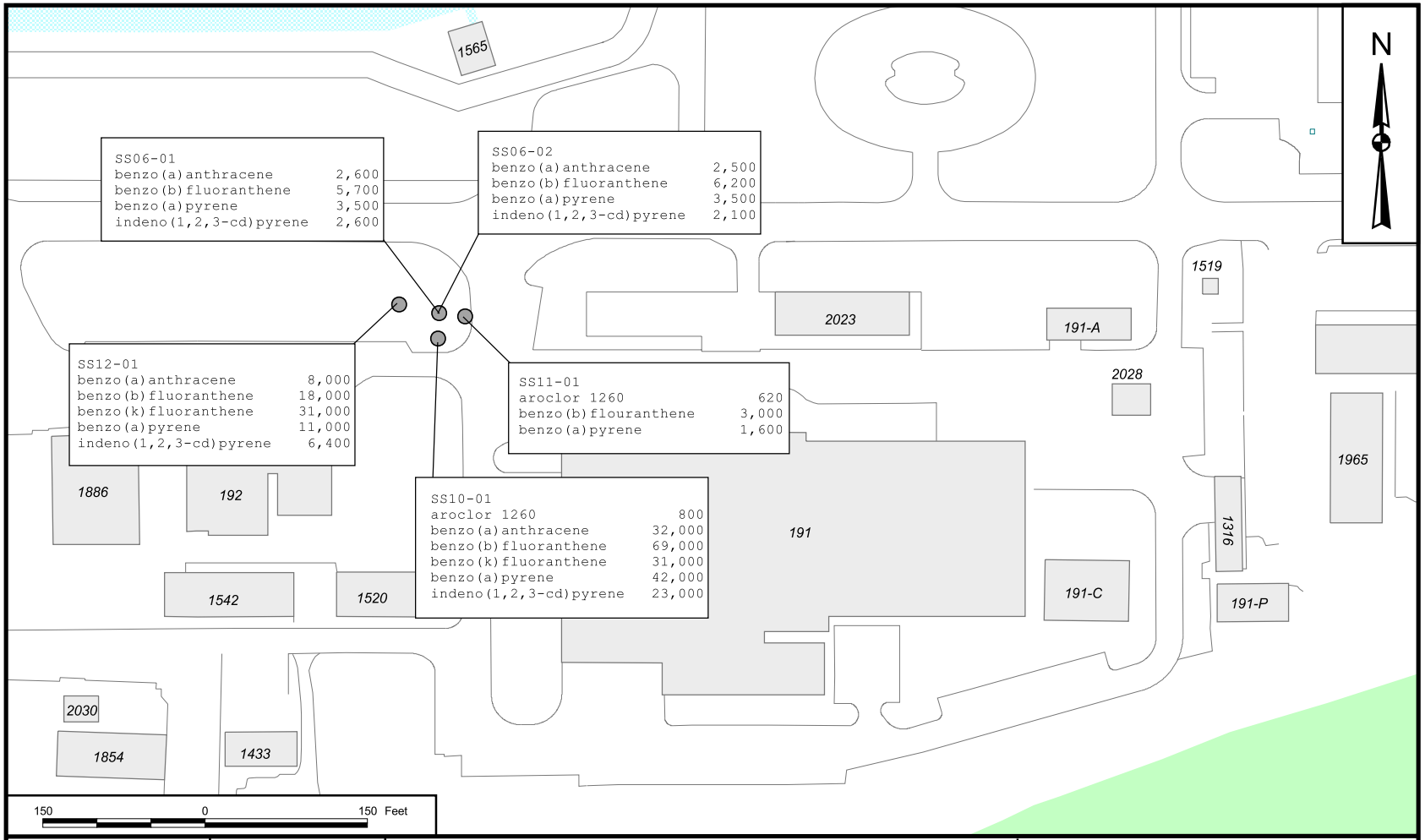
GROUP IV

U.S. NAVAL STATION

MAYPORT, FLORIDA

CONTRACT NUMBER		
0091		
APPROVED BY	DATE	
—	—	
APPROVED BY	DATE	
—	—	
DRAWING NO.		REV
FIGURE 1		0

P:\GIS\MAYPORT_NS\APRS\0123.APR SAMPLING AREA LOCATION LAYOUT 05/07/02 AJ



DRAWN BY	DATE
A. JANOCHA	05/01/02
CHECKED BY	DATE
T. THOMPSON	05/03/02
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

SOIL SAMPLING LOCATIONS
GROUP IV
U.S. NAVAL STATION
MAYPORT, FLORIDA

CONTRACT NUMBER	
0091	
APPROVED BY	DATE
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APPROVED BY	DATE
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DRAWING NO.	REV
FIGURE 2	0

P:\GIS\MAYPORT_NS\0123.APR TAG MAP LAYOUT 05/07/02 AJ

Appendix C

Contaminated Soil Delineation Laboratory Analytical Reports

N.S. Mayport

PREPARED FOR: N.S Mayport / Building 191 2004

FINAL REVEIWER: Camden Robinson/ Associate Project Chemist/CCI

COPIES: Mike Halil/Project Manager/CCI

DATE: December 16, 2004

SUBJECT: Quality Assessment for Samples Collected October 2004

This quality assurance memorandum is based upon a review of analytical data generated for soil samples and associated field quality control samples collected October 2004 at the Naval Station in Mayport, Florida. The samples were collected as a part of the building 191 sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identication numbers, dates of collection, and the analyses performed.

Gulf Coast Analytical Laboratories in Baton Rouge, Louisiana served as the laboratory for this building 191 sampling event for the following analyses:

- Semivolatile organic compounds (SVOC) by SW-846 method 8270C,
- Pesticides by SW-846 method 8081A,
- Polychlorinated Biphenyls (PCB) by SW-846 method 8082,
- Target Analyte List Metals (TAL metals) by SW-846 method 6010B/7470A/7471A

Table 1-1 *Summary Sample Data Reviewed*
N.S. Mayport

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
21SS01S041006	20410071901	10/6/2004	[1], [2], [3], [4]
21SS02S041006	20410071902	10/6/2004	[1], [2], [3], [4]
21EB1W041006	20410071906	10/6/2004	[1], [2], [3], [4]
21EB2W041006	20410071907	10/6/2004	[1], [2], [3], [4]
21DP1S041006	20410071910	10/6/2004	[1], [2], [3], [4]
21SS6AS041028	20410290801	10/28/2004	[1], [2], [3], [4]
21SS7AS041028	20410290803	10/28/2004	[1], [2], [3], [4]
21SS08S041028	20410290805	10/28/2004	[1], [2], [3], [4]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
21SS09S041028	20410290806	10/28/2004	[1], [2], [3], [4]
21SS10S041028	20410290807	10/28/2004	[1], [2], [3], [4]
21SS11S041028	20410290808	10/28/2004	[1], [2], [3], [4]
21SS14S041028	20410290811	10/28/2004	[1], [2], [3], [4]
21EB3W041028	20410290813	10/28/2004	[1], [2], [3], [4]
21EB4W041028	20410290814	10/28/2004	[1], [2], [3], [4]
21DP2S041028	20410290815	10/28/2004	[1], [2], [3], [4]

ANALYSES PERFORMED CODES:
[1] – Semivolatile organic compounds (SVOC) by SW-846 method 8270C,
[2] – Pesticides by SW-846 method 8081A,
[3] –Polychlorinated Biphenyls (PCB) by SW-846 method 8082,
[4] – Target Analyte List Metals (TAL Metals) by SW-846 method 6010B/7470A/7471A,
**21DP1S041006 is the blind duplicate for sample 21SS01S041006*
*****21DP2S041028 is the blind duplicate for sample 21SS6AS041028***

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

RESIDENTIAL AND INDUSTRIAL ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of October 2004 for the semivolatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), and TAL Metals analyses were less than the action level cleanup target level residential and industrial regulartory limits with the exception of the analytes listed below:

Analyte	Affected Sample	Sample Results mg/kg	Cleanup Target Level Residential Action Level limit (mg/kg)	Cleanup Target Level Industrial Action Level limit (mg/kg)
Arsenic	21SS01S041006	1.94U	0.8	
Arsenic	21SS02S041006	1.97U	0.8	
Arsenic	21SS08S041028	1.64U	0.8	
Arsenic	21SS09S041028	1.73U	0.8	
Arsenic	21SS10S041028	1.88U	0.8	
Arsenic	21SS14S041028	1.65U	0.8	
Arsenic	21SS6AS041028	1.99U	0.8	
Arsenic	21SS7AS041028	1.9U	0.8	
2,6-Dinitrotoluene	21SS10S041028	1.17U	1.0	
2-Nitroaniline	21SS10S041028	5.83UJ	5.7	
3,3-Dichlorobenzidine	21SS10S041028	2.33U	2.1	
4-Nitroaniline	21SS10S041028	5.83U	5.2	
Benzo(a)anthracene	21SS10S041028	2.17	1.4	
Benzo(a)pyrene	21SS10S041028	2.6	0.1	0.5
Bis(2-chloroethyl)ether	21SS01S041006	0.401U	0.3	0.4
Bis(2-chloroethyl)ether	21SS02S041006	0.406U	0.3	0.4
Bis(2-chloroethyl)ether	21SS08S041028	0.341U	0.3	
Bis(2-chloroethyl)ether	21SS09S041028	0.357U	0.3	
Bis(2-chloroethyl)ether	21SS10S041028	1.17U	0.3	0.4
Bis(2-chloroethyl)ether	21SS11S041028	0.358U	0.3	
Bis(2-chloroethyl)ether	21SS14S041028	0.342U	0.3	
Bis(2-chloroethyl)ether	21SS6AS041028	0.41U	0.3	0.4
Bis(2-chloroethyl)ether	21SS7AS041028	0.392U	0.3	
Hexachlorobenzene	21SS10S041028	1.17U	0.5	1.1

Analyte	Affected Sample	Sample Results mg/kg	Cleanup Target Level Residential Action Level limit (mg/kg)	Cleanup Target Level Industrial Action Level limit (mg/kg)
Indeno(1,2,3-cd)pyrene	21SS10S041028	1.83	1.5	
N-Nitrosodi-n-propylamine	21SS01S041006	0.401U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS02S041006	0.406U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS08S041028	0.341U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS09S041028	0.357U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS10S041028	1.17U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS11S041028	0.358U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS14S041028	0.342U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS6AS041028	0.41U	0.09	0.2
N-Nitrosodi-n-propylamine	21SS7AS041028	0.392U	0.09	0.2

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

Organic Data Qualifiers

The quantitation limits or positive results reported for semivolatile organic compounds 4-chloro-3-methylphenol, bis(2-chloroisopropyl)ether, 2-nitroaniline, 4-nitrophenol, atrazine, caprolactam, dibenz(a,h)anthracene, hexachlorobutadiene, hexachlorocyclopentadiene, pesticides compound 4,4'-DDT and polychlorinated biphenyl compound aroclor 1260 in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the initial and/or continuing calibrations were reported during the semivolatile organic compound, pesticides, and polychlorinated biphenyl analyses. Lack of precision during the initial and/or continuing calibration indicates instrument instability; therefore a "J" qualifier was appended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
4-Chloro-3-methylphenol	21SS01S041006, 21SS02S041006, 21DP1S041006
Bis(2-chloroisopropyl)ether	21SS01S041006, 21SS02S041006, 21DP1S041006
4,4'-DDT	21SS02S041006
2-Nitroaniline	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028

Compound	Affected Samples
4-Nitrophenol	21SS6AS041028
Atrazine	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Caprolactam	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Dibenz(a,h)anthracene	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Hexachlorobutadiene	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Hexachlorocyclopentadiene	21SS6AS041028
Aroclor 1260	21SS09S041028, 21SS10S041028, 21DP2S041028

The quantitation limits reported for semivolatile organic compounds 2-nitroaniline and benzaldehyde in the samples listed below should be considered invalid. High percent relative standard deviations exceeded 40% during the continuing calibration for the semivolatile organic analysis. The quantitation limits have been qualified with a "R" qualifier to indicate that they are qualitatively invalid.

Compound	Affected Samples
2-Nitroaniline	21SS01S041006, 21SS02S041006, 21DP1S041006
Benzaldehyde	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028

As a result of the second source calibration standards exceeding the 20 percent difference criterion for the sample listed in the table below, the reported value for endrin aldehyde should be considered a qualitative estimate. Second source recovery outside criteria indicates a lack of accuracy between this standard and the associated initial calibration for the compound listed. The positive result for this compound in this sample has been appended with a "J" qualifier to indicate it is a qualitative estimate.

Compound	Affected Samples
Endrin Aldehyde	21SS02S041006

The quantitation limits reported for atrazine in the samples listed below should be considered quantitative estimates. Relative response factor (RRF) precision during the initial and/or continuing calibrations exceeded criteria during the semivolatile organic analysis. Poor initial and/or continuing calibration RRF precision indicates a lack of instrument stability for this compound. The quantitation limits for this compound in these samples have been apprended with a "J" qualifier to indicate they are qualitative estimates. This should be noted when reviewing these samples for the quantitative absence of this compound.

Compound	Affected Samples
Atrazine	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028

The positive results for the pesticides and PCB compounds in the samples listed below are quantitative estimates. The relative percent difference (RPD) between the results for the primary and confirmatory column analyses was greater than the acceptance criterion of 40 percent for these compounds. All positive pesticides and PCB results must be confirmed by second column or second detector with the higher of the two confirmed results reported. The positive results for these compounds in the specified samples have been "J" qualified on the data summary tables to indicate that they are quantitative estimates

Compound	Affected Samples
Endosulfan II	21SS02S041006, 21SS09S041028, 21SS10S041028, 21DP2S041028
4,4'-DDD	21SS08S041028, 21SS10S041028, 21DP2S041028
4,4'-DDE	21SS08S041028, 21DP2S041028
4,4'-DDT	21SS08S041028, 21SS10S041028, 21DP2S041028
Aroclor 1260	21SS08S041028, 21SS11S041028, 21DP2S041028
Endosulfan sulfate	21SS10S041028, 21SS11S041028, 21DP2S041028
Endrin aldehyde	21SS10S041028, 21DP2S041028
Aldrin	21DP2S041028
Dieldrin	21DP2S041028
Endosulfan I	21DP2S041028
Endrin	21DP2S041028
Endrin ketone	21DP2S041028
Heptachlor	21DP2S041028
Heptachlor epoxide	21DP2S041028
Methoxychlor	21DP2S041028
Toxaphene	21DP2S041028

Compound	Affected Samples
Alpha-BHC	21DP2S041028
Beta-BHC	21DP2S041028
Delta-BHC	21DP2S041028
Gamma-BHC (Lindane)	21DP2S041028
Gamma-Chlordane	21DP2S041028
Alpha-Chlordane	21DP2S041028

The quanitiation limits or positive results for the pesticides and PCB compounds in the samples listed below are quantitative estimates. The lower of the two results were reported due to overlapping peaks, which caused erroneously high results during the primary or confirmatory column analyses. The quantitation limits or positive results for these compounds in the specified samples have been "J" qualified on the data summary tables to indicate that they are quantitative estimates.

Compound	Affected Samples
4,4'-DDE	21SS02S041006, 21SS11S041028, 21DP2S041028
Heptachlor epoxide	21SS08S041028, 21DP2S041028
Endosulfan II	21SS09S041028, 21DP2S041028
Endosulfan sulfate	21SS10S041028, 21SS11S041028, 21DP2S041028
Endrin aldehyde	21SS10S041028, 21DP2S041028
4,4'-DDD	21SS11S041028, 21DP2S041028
Aroclor 1260	21SS11S041028
Aldrin	21DP2S041028
Dieldrin	21DP2S041028
Endosulfan I	21DP2S041028
Endrin	21DP2S041028
Endrin ketone	21DP2S041028
Heptachlor	21DP2S041028
4,4-DDT	21DP2S041028
Methoxychlor	21DP2S041028
Toxaphene	21DP2S041028
Alpha-BHC	21DP2S041028
Beta-BHC	21DP2S041028
Delta-BHC	21DP2S041028

Compound	Affected Samples
Gamma-BHC (Lindane)	21DP2S041028
Gamma-Chlordane	21DP2S041028
Alpha-Chlordane	21DP2S041028

The results for the samples listed below are considered estimated due to the levels at which the analytes were present in the associated equipment or method blanks. This has been indicated by placing a "B" qualifier next to the quantitative results for results affected by the method blanks, and a "JB" qualifier next to the quantitative results affected by the field or equipment blanks for the samples listed below on the data summary tables.

Compound	Affected Samples
Bis(2-ethylhexyl)phthalate	21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028

The samples presented below were analyzed at dilutions for the analysis listed below. These dilutions were required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for these compounds in the samples below have been reported from the diluted analyses. All other results and quantitation limits have been reported on the sample report summary from the initial analysis. However, higher quantitation limits have resulted for specific semivolatile organic compounds and pesticides, which were not detected, in these samples. This should be noted when assessing these samples for the qualitative absence of specific semivolatile organic compounds and pesticides.

Sample ID	Analysis	Dilution Factor
21SS10S041028	SVOC	3X
21SS11S041028	PEST	2X

Samples 21SS01S041006 and 22SS6AS041028 their blind field duplicate samples 21DP1S041006 and 21DP2S041028 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for soil samples relative percent difference (RPD) for semivolatile organic compounds, pesticides, and polychlorinated biphenyl compound analyses with the exception of benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene. A "J" qualifier was appended to the compounds for the native sample and field duplicate sample listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Benzo(a)pyrene	21SS01S041006, 21DP2S041028
Indeno(1,2,3-cd)pyrene	21SS01S041006
Benzo(b)fluoranthene	21DP2S041028
Benzo(k)fluoranthene	21DP2S041028

Inorganic Data Qualifiers

The results for the samples listed below are considered estimated due to the levels at which the elements were present in the associated field, method, initial, and/or continuing calibration blanks. This has been indicated by placing a "B" qualifier next to the quantitative results for results affected by the method, initial, and continuing calibration blanks, and a "JB" qualifier next to the quantitative results affected by the field or equipment blanks for the samples listed below on the data summary tables.

Compound	Affected Samples
Barium	21SS01S041006, 21SS02S041006, 21DP1S041006
Beryllium	21SS01S041006, 21SS02S041006, 21DP1S041006
Calcium	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Chromium	21SS01S041006, 21SS02S041006, 21DP1S041006
Cobalt	21SS01S041006, 21SS02S041006, 21DP1S041006
Iron	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Manganese	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Mercury	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028
Sodium	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Thallium	21SS01S041006, 21SS02S041006, 21DP1S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Lead	21SS02S041006, 21DP2S041028
Magnesium	21SS02S041006
Nickel	21SS02S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028,

Compound	Affected Samples
	21DP2S041028
Potassium	21SS02S041006, 21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Aluminum	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Cadmium	21SS6AS041028, 21SS7AS041028, 21SS08S041028, 21SS09S041028, 21SS10S041028, 21SS11S041028, 21SS14S041028, 21DP2S041028
Silver	21SS7AS041028
Arsenic	21SS11S041028

The positive results reported for aluminum, barium, beryllium, chromium, iron, and manganese for sample 21SS01S041006 are considered quantitative estimates. The ICP serial dilution analysis results associated with this sample were outside the established precision criteria for these elements. This indicates the possible presence of physical or chemical interferences in these samples. This has been indicated by placing "J" qualifiers next to the positive results for aluminum, barium, beryllium, chromium, iron, and manganese for sample 21SS01S041006on the data summary tables.

The positive results reported for aluminum for the samples listed below should be considered biased low quantitative estimates and may be lower than reported. The associated recoveries for the client specific matrix spike and matrix spike duplicate (MS/MSD) samples were higher than the established quality control (QC) limit for this element. The bias high MS/MSD recoveries indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by placing "J" qualifiers next to the aluminum results for the samples listed below on the data summary tables.

Compound	Affected Samples
Aluminum	21SS01S041006, 21SS7AS041028

The quantitation limit reported for antimony for the sample listed below should be considered a biased high quantitative estimate and may be higher than reported. The associated recoveries for the client specific matrix spike and matrix spike duplicate (MS/MSD) samples were below the established quality control (QC) limit for this element. The bias low MS/MSD recoveries indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by placing "J" qualifiers next to the antimony result for the sample listed below on the data summary tables.

Compound	Affected Samples
Antimony	21SS7AS041028

Samples 21SS01S041006 and 22SS6AS041028 their blind field duplicate samples 21DP1S041006 and 21DP2S041028 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for soil samples relative percent difference (RPD) for the metals analyses with the exception of barium, copper, iron, lead, magnesium, potassium, calcium, manganese, and zinc. A "J" qualifier was appended to the compounds for the native sample and field duplicate sample listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Barium	21SS01S041006, 21DP1S041006
Copper	21SS01S041006, 21DP1S041006, 21SS6AS041028, 21DP2S041028
Iron	21SS01S041006, 21DP1S041006, 21SS6AS041028, 21DP2S041028
Lead	21SS01S041006, 21DP1S041006, 21SS6AS041028, 21DP2S041028
Magnesium	21SS01S041006, 21DP1S041006, 21SS6AS041028, 21DP2S041028
Potassium	21SS01S041006
Zinc	21SS01S041006, 21DP1S041006, 21SS6AS041028, 21DP2S041028
Calcium	21SS6AS041028, 21DP2S041028
Manganese	21SS6AS041028, 21DP2S041028

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the RAC IV/CTO 21 N.S. Mayport / Building 191 2004 sampling project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Reported values may be biased due to apparent matrix interferences. (AIR ANALYSIS ONLY)	Not applicable
OP	Lower of two confirmed results reported due to overlapping peaks	Not applicable.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS01S041006

Contract:

Lab File ID: 2041008/B2978

Lab Sample ID: 20410071901

Date Collected: 10/06/04 Time: 1115

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1322

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	8.01	U	8.01	8.01	
95-95-4	2,4,5-Trichlorophenol	401	U	11.9	401	
88-06-2	2,4,6-Trichlorophenol	401	U	10.7	401	
120-83-2	2,4-Dichlorophenol	401	U	9.20	401	
105-67-9	2,4-Dimethylphenol	401	U	99.5	401	
51-28-5	2,4-Dinitrophenol	2000	U	125	2000	
121-14-2	2,4-Dinitrotoluene	401	U	6.19	401	
606-20-2	2,6-Dinitrotoluene	401	U	21.1	401	
91-58-7	2-Chloronaphthalene	401	U	7.80	401	
95-57-8	2-Chlorophenol	401	U	68.2	401	
91-57-6	2-Methylnaphthalene	8.01	U	8.01	8.01	
88-74-4	2-Nitroaniline	2000	U R	10.0	2000	C
88-75-5	2-Nitrophenol	401	U	7.72	401	
91-94-1	3,3'-Dichlorobenzidine	801	U	22.5	801	
99-09-2	3-Nitroaniline	2000	U	5.38	2000	
534-52-1	2-Methyl-4,6-dinitrophenol	2000	U	39.9	2000	
101-55-3	4-Bromophenyl-phenylether	401	U	8.25	401	
59-50-7	4-Chloro-3-methylphenol	401	U J	10.4	401	C
106-47-8	4-Chloroaniline	401	U	23.7	401	
7005-72-3	4-Chlorophenyl-phenylether	401	U	14.2	401	
100-01-6	4-Nitroaniline	2000	U	5.92	2000	
100-02-7	4-Nitrophenol	2000	U	5.96	2000	
83-32-9	Acenaphthene	40.1	U	5.10	40.1	
208-96-8	Acenaphthylene	40.1	U	5.29	40.1	
98-86-2	Acetophenone	401	U	17.1	401	
120-12-7	Anthracene	40.1	U	5.38	40.1	
1912-24-9	Atrazine (Aatrex)	801	U	13.7	801	
100-52-7	Benzaldehyde	801	U R	14.8	801	C
56-55-3	Benzo(a)anthracene	59.8	J	4.19	8.01	Z
50-32-8	Benzo(a)pyrene	8.01	U	3.65	8.01	

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FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS01S041006

Contract:

Lab File ID: 2041008/B2978

Lab Sample ID: 20410071901

Date Collected: 10/06/04 Time: 1115

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1322

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	8.01	U	8.01	8.01	
191-24-2	Benzo(g,h,i)perylene	9.37	J	7.22	40.1	
207-08-9	Benzo(k)fluoranthene	8.01	U	8.01	8.01	
92-52-4	Biphenyl	401	U	6.55	401	
111-91-1	Bis(2-Chloroethoxy)methane	401	U	10.6	401	
111-44-4	Bis(2-Chloroethyl)ether	401	U	70.6	401	
108-60-1	bis(2-Chloroisopropyl)ether	401	U J	78.8	401	C
117-81-7	bis(2-ethylhexyl)phthalate	401	U	8.98	401	
85-68-7	Butylbenzylphthalate	401	U	8.22	401	
105-60-2	Caprolactam	401	U	8.01	401	
86-74-8	Carbazole	401	U	5.73	401	
218-01-9	Chrysene	40.1	U	5.72	40.1	
84-74-2	Di-n-butylphthalate	401	U	10.4	401	
117-84-0	Di-n-octylphthalate	401	U	17.7	401	
53-70-3	Dibenz(a,h)anthracene	8.01	U	7.22	8.01	
132-64-9	Dibenzofuran	401	U	4.64	401	
84-66-2	Diethylphthalate	401	U	8.31	401	
131-11-3	Dimethyl-phthalate	401	U	11.7	401	
206-44-0	Fluoranthene	40.1	U	5.90	40.1	
86-73-7	Fluorene	40.1	U	4.85	40.1	
118-74-1	Hexachlorobenzene	401	U	8.43	401	
87-68-3	Hexachlorobutadiene	401	U	74.6	401	
77-47-4	Hexachlorocyclopentadiene	401	U	51.3	401	
67-72-1	Hexachloroethane	401	U	126	401	
193-39-5	Indeno(1,2,3-cd)pyrene	108	J	8.01	8.01	Z
78-59-1	Isophorone	401	U	6.51	401	
91-20-3	Naphthalene	40.1	U	8.01	40.1	
98-95-3	Nitrobenzene	401	U	66.0	401	
87-86-5	Pentachlorophenol	2000	U	75.2	2000	
85-01-8	Phenanthrene	40.1	U	1.82	40.1	
108-95-2	Phenol	401	U	10.4	401	

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS01S041006

Contract:

Lab File ID: 2041008/B2978

Lab Sample ID: 20410071901

Date Collected: 10/06/04 Time: 1115

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1322

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	40.1	U	6.12	40.1
1319-77-3M	m,p-Cresol	401	U	16.9	401
621-64-7	N-Nitroso-di-n-propylamine	401	U	9.27	401
86-30-6	N-Nitrosodiphenylamine	401	U	17.2	401
95-48-7	o-Cresol	401	U	117	401

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 18 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS02S041006

Contract:

Lab File ID: 2041008/B2979

Lab Sample ID: 20410071902

Date Collected: 10/06/04 Time: 1125

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1339

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	8.12	U	8.12	8.12	
95-95-4	2,4,5-Trichlorophenol	406	U	12.1	406	
88-06-2	2,4,6-Trichlorophenol	406	U	10.8	406	
120-83-2	2,4-Dichlorophenol	406	U	9.32	406	
105-67-9	2,4-Dimethylphenol	406	U	101	406	
51-28-5	2,4-Dinitrophenol	2030	U	127	2030	
121-14-2	2,4-Dinitrotoluene	406	U	6.27	406	
606-20-2	2,6-Dinitrotoluene	406	U	21.4	406	
91-58-7	2-Chloronaphthalene	406	U	7.91	406	
95-57-8	2-Chlorophenol	406	U	69.1	406	
91-57-6	2-Methylnaphthalene	8.12	U	8.12	8.12	
88-74-4	2-Nitroaniline	2030	U R	10.1	2030	C
88-75-5	2-Nitrophenol	406	U	7.82	406	
91-94-1	3,3'-Dichlorobenzidine	812	U	22.7	812	
99-09-2	3-Nitroaniline	2030	U	5.45	2030	
534-52-1	2-Methyl-4,6-dinitrophenol	2030	U	40.5	2030	
101-55-3	4-Bromophenyl-phenylether	406	U	8.36	406	
59-50-7	4-Chloro-3-methylphenol	406	U J	10.6	406	C
106-47-8	4-Chloroaniline	406	U	24.0	406	
7005-72-3	4-Chlorophenyl-phenylether	406	U	14.4	406	
100-01-6	4-Nitroaniline	2030	U	6.00	2030	
100-02-7	4-Nitrophenol	2030	U	6.04	2030	
83-32-9	Acenaphthene	40.6	U	5.16	40.6	
208-96-8	Acenaphthylene	40.6	U	5.36	40.6	
98-86-2	Acetophenone	406	U	17.3	406	
120-12-7	Anthracene	40.6	U	5.45	40.6	
1912-24-9	Atrazine (Aatrex)	812	U	13.9	812	
100-52-7	Benzaldehyde	812	U R	15.0	812	C
56-55-3	Benzo(a)anthracene	83.5		4.24	8.12	
50-32-8	Benzo(a)pyrene	36.0		3.70	8.12	

C.R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 18 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS02S041006

Contract:

Lab File ID: 2041008/B2979

Lab Sample ID: 20410071902

Date Collected: 10/06/04 Time: 1125

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1339

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL
205-99-2	Benzo(b)fluoranthene	51.3		8.12	8.12
191-24-2	Benzo(g,h,i)perylene	45.0		7.32	40.6
207-08-9	Benzo(k)fluoranthene	47.7		8.12	8.12
92-52-4	Biphenyl	406	U	6.64	406
111-91-1	Bis(2-Chloroethoxy)methane	406	U	10.7	406
111-44-4	Bis(2-Chloroethyl)ether	406	U	71.6	406
108-60-1	bis(2-Chloroisopropyl)ether	406	U J	79.8	406
117-81-7	bis(2-ethylhexyl)phthalate	27.7	J	9.10	406
85-68-7	Butylbenzylphthalate	406	U	8.32	406
105-60-2	Caprolactam	406	U	8.12	406
86-74-8	Carbazole	406	U	5.80	406
218-01-9	Chrysene	48.4		5.79	40.6
84-74-2	Di-n-butylphthalate	406	U	10.5	406
117-84-0	Di-n-octylphthalate	406	U	18.0	406
53-70-3	Dibenz(a,h)anthracene	8.12	U	7.32	8.12
132-64-9	Dibenzofuran	406	U	4.70	406
84-66-2	Diethylphthalate	406	U	8.42	406
131-11-3	Dimethyl-phthalate	406	U	11.9	406
206-44-0	Fluoranthene	65.4		5.98	40.6
86-73-7	Fluorene	40.6	U	4.92	40.6
118-74-1	Hexachlorobenzene	406	U	8.55	406
87-68-3	Hexachlorobutadiene	406	U	75.6	406
77-47-4	Hexachlorocyclopentadiene	406	U	52.0	406
67-72-1	Hexachloroethane	406	U	128	406
193-39-5	Indeno(1,2,3-cd)pyrene	133		8.12	8.12
78-59-1	Isophorone	406	U	6.59	406
91-20-3	Naphthalene	40.6	U	8.12	40.6
98-95-3	Nitrobenzene	406	U	66.9	406
87-86-5	Pentachlorophenol	2030	U	76.2	2030
85-01-8	Phenanthrene	21.9	J	1.84	40.6
108-95-2	Phenol	406	U	10.5	406

C.P

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 18 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS02S041006

Contract:

Lab File ID: 2041008/B2979

Lab Sample ID: 20410071902

Date Collected: 10/06/04 Time: 1125

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1339

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	55.2		6.20	40.6
1319-77-3M	m,p-Cresol	406	U	17.1	406
621-64-7	N-Nitroso-di-n-propylamine	406	U	9.39	406
86-30-6	N-Nitrosodiphenylamine	406	U	17.5	406
95-48-7	o-Cresol	406	U	119	406

c.f

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB1W041006

Contract:

Lab File ID: 2041008P/B3030

Lab Sample ID: 20410071906

Date Collected: 10/06/04 Time: 1105

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0611

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
120-82-1	1,2,4-Trichlorobenzene	10.0	U	0.269	10.0
90-12-0	1-Methylnaphthalene	0.200	U	0.114	0.200
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.207	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.420	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.292	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.438	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.400	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.306	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.207	10.0
95-57-8	2-Chlorophenol	10.0	U	0.221	10.0
91-57-6	2-Methylnaphthalene	1.00	U	0.164	1.00
88-74-4	2-Nitroaniline	50.0	U	0.150	50.0
88-75-5	2-Nitrophenol	10.0	U	0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.200	20.0
99-09-2	3-Nitroaniline	50.0	U	0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.759	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.283	10.0
106-47-8	4-Chloroaniline	10.0	U	0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.243	10.0
83-32-9	Acenaphthene	1.00	U	0.219	1.00
208-96-8	Acenaphthylene	1.00	U	0.156	1.00
98-86-2	Acetophenone	10.0	U	0.315	10.0
120-12-7	Anthracene	1.00	U	0.199	1.00
1912-24-9	Atrazine (Aatrex)	20.0	U	0.473	20.0
100-52-7	Benzaldehyde	20.0	U	0.470	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.205	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.130	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.244	0.400
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.199	1.00
207-08-9	Benzo(k)fluoranthene	0.500	U	0.269	0.500

ok

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB1W041006

Contract:

Lab File ID: 2041008P/B3030

Lab Sample ID: 20410071906

Date Collected: 10/06/04 Time: 1105

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0611

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	10.0	U	0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.585	5.00
85-68-7	Butylbenzylphthalate	10.0	U	0.356	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.214	4.00
218-01-9	Chrysene	1.00	U	0.311	1.00
84-74-2	Di-n-butylphthalate	10.0	U	0.735	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.140	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.287	0.400
132-64-9	Dibenzofuran	10.0	U	0.118	10.0
84-66-2	Diethylphthalate	10.0	U	0.342	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.206	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.532	10.0
206-44-0	Fluoranthene	1.00	U	0.231	1.00
86-73-7	Fluorene	1.00	U	0.230	1.00
118-74-1	Hexachlorobenzene	1.00	U	0.291	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.331	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.162	10.0
67-72-1	Hexachloroethane	2.00	U	0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.240	0.400
78-59-1	Isophorone	10.0	U	0.271	10.0
91-20-3	Naphthalene	1.00	U	0.211	1.00
100-01-6	4-Nitroaniline	50.0	U	0.119	50.0
98-95-3	Nitrobenzene	4.00	U	0.168	4.00
100-02-7	4-Nitrophenol	50.0	U	0.345	50.0
87-86-5	Pentachlorophenol	50.0	U	0.748	50.0
85-01-8	Phenanthrene	1.00	U	0.191	1.00
108-95-2	Phenol	10.0	U	0.132	10.0

0.K

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB1W041006

Contract:

Lab File ID: 2041008P/B3030

Lab Sample ID: 20410071906

Date Collected: 10/06/04 Time: 1105

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0611

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	1.00	U	0.234	1.00
1319-77-3M	m,p-Cresol	10.0	U	0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.124	4.00
55-18-5	N-Nitrosodiethylamine	10.0	U	1.69	10.0
62-75-9	N-Nitrosodimethylamine	10.0	U	0.839	10.0
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.247	7.00
95-48-7	o-Cresol	10.0	U	0.235	10.0

C.K

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB2W041006

Contract:

Lab File ID: 2041008P/B3031

Lab Sample ID: 20410071907

Date Collected: 10/06/04 Time: 1205

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0627

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
120-82-1	1,2,4-Trichlorobenzene	10.0	U	0.269	10.0
90-12-0	1-Methylnaphthalene	0.200	U	0.114	0.200
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.207	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.420	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.292	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.438	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.400	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.306	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.207	10.0
95-57-8	2-Chlorophenol	10.0	U	0.221	10.0
91-57-6	2-Methylnaphthalene	1.00	U	0.164	1.00
88-74-4	2-Nitroaniline	50.0	U	0.150	50.0
88-75-5	2-Nitrophenol	10.0	U	0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.200	20.0
99-09-2	3-Nitroaniline	50.0	U	0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.759	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.283	10.0
106-47-8	4-Chloroaniline	10.0	U	0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.243	10.0
83-32-9	Acenaphthene	1.00	U	0.219	1.00
208-96-8	Acenaphthylene	1.00	U	0.156	1.00
98-86-2	Acetophenone	10.0	U	0.315	10.0
120-12-7	Anthracene	1.00	U	0.199	1.00
1912-24-9	Atrazine (Aatrex)	20.0	U	0.473	20.0
100-52-7	Benzaldehyde	20.0	U	0.470	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.205	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.130	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.244	0.400
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.199	1.00
207-08-9	Benzo(k)fluoranthene	0.500	U	0.269	0.500

C.L

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB2W041006

Contract:

Lab File ID: 2041008P/B3031

Lab Sample ID: 20410071907

Date Collected: 10/06/04 Time: 1205

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0627

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	10.0	U	0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.585	5.00
85-68-7	Butylbenzylphthalate	10.0	U	0.356	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.214	4.00
218-01-9	Chrysene	1.00	U	0.311	1.00
84-74-2	Di-n-butylphthalate	10.0	U	0.735	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.140	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.287	0.400
132-64-9	Dibenzofuran	10.0	U	0.118	10.0
84-66-2	Diethylphthalate	10.0	U	0.342	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.206	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.532	10.0
206-44-0	Fluoranthene	1.00	U	0.231	1.00
86-73-7	Fluorene	1.00	U	0.230	1.00
118-74-1	Hexachlorobenzene	1.00	U	0.291	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.331	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.162	10.0
67-72-1	Hexachloroethane	2.00	U	0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.240	0.400
78-59-1	Isophorone	10.0	U	0.271	10.0
91-20-3	Naphthalene	1.00	U	0.211	1.00
100-01-6	4-Nitroaniline	50.0	U	0.119	50.0
98-95-3	Nitrobenzene	4.00	U	0.168	4.00
100-02-7	4-Nitrophenol	50.0	U	0.345	50.0
87-86-5	Pentachlorophenol	50.0	U	0.748	50.0
85-01-8	Phenanthrene	1.00	U	0.191	1.00
108-95-2	Phenol	10.0	U	0.132	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB2W041006

Contract:

Lab File ID: 2041008P/B3031

Lab Sample ID: 20410071907

Date Collected: 10/06/04 Time: 1205

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/09/04 Time: 0627

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281190 Analytical Batch: 281245

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	1.00	U	0.234	1.00
1319-77-3M	m,p-Cresol	10.0	U	0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.124	4.00
55-18-5	N-Nitrosodiethylamine	10.0	U	1.69	10.0
62-75-9	N-Nitrosodimethylamine	10.0	U	0.839	10.0
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.247	7.00
95-48-7	o-Cresol	10.0	U	0.235	10.0

C.A

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP1S041006

Contract:

Lab File ID: 2041008/B2985

Lab Sample ID: 20410071910

Date Collected: 10/06/04 Time: 0000

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1523

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	8.42	U	8.42	8.42	
95-95-4	2,4,5-Trichlorophenol	421	U	12.6	421	
88-06-2	2,4,6-Trichlorophenol	421	U	11.2	421	
120-83-2	2,4-Dichlorophenol	421	U	9.67	421	
105-67-9	2,4-Dimethylphenol	421	U	105	421	
51-28-5	2,4-Dinitrophenol	2100	U	131	2100	
121-14-2	2,4-Dinitrotoluene	421	U	6.51	421	
606-20-2	2,6-Dinitrotoluene	421	U	22.2	421	
91-58-7	2-Chloronaphthalene	421	U	8.20	421	
95-57-8	2-Chlorophenol	421	U	71.7	421	
91-57-6	2-Methylnaphthalene	8.42	U	8.42	8.42	
88-74-4	2-Nitroaniline	2100	U R	10.5	2100	C
88-75-5	2-Nitrophenol	421	U	8.11	421	
91-94-1	3,3'-Dichlorobenzidine	842	U	23.6	842	
99-09-2	3-Nitroaniline	2100	U	5.65	2100	
534-52-1	2-Methyl-4,6-dinitrophenol	2100	U	42.0	2100	
101-55-3	4-Bromophenyl-phenylether	421	U	8.68	421	
59-50-7	4-Chloro-3-methylphenol	421	U J	11.0	421	C
106-47-8	4-Chloroaniline	421	U	24.9	421	
7005-72-3	4-Chlorophenyl-phenylether	421	U	14.9	421	
100-01-6	4-Nitroaniline	2100	U	6.23	2100	
100-02-7	4-Nitrophenol	2100	U	6.26	2100	
83-32-9	Acenaphthene	42.1	U	5.36	42.1	
208-96-8	Acenaphthylene	42.1	U	5.56	42.1	
98-86-2	Acetophenone	421	U	18.0	421	
120-12-7	Anthracene	42.1	U	5.65	42.1	
1912-24-9	Atrazine (Aatrex)	842	U	14.4	842	
100-52-7	Benzaldehyde	842	U R	15.6	842	C
56-55-3	Benzo(a)anthracene	8.42	U	4.40	8.42	
50-32-8	Benzo(a)pyrene	8.42	U	3.84	8.42	

CF

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP1S041006

Contract:

Lab File ID: 2041008/B2985

Lab Sample ID: 20410071910

Date Collected: 10/06/04 Time: 0000

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1523

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL
205-99-2	Benzo(b)fluoranthene	8.42	U	8.42	8.42
191-24-2	Benzo(g,h,i)perylene	42.1	U	7.59	42.1
207-08-9	Benzo(k)fluoranthene	8.42	U	8.42	8.42
92-52-4	Biphenyl	421	U	6.89	421
111-91-1	Bis(2-Chloroethoxy)methane	421	U	11.1	421
111-44-4	Bis(2-Chloroethyl)ether	421	U	74.2	421
108-60-1	bis(2-Chloroisopropyl)ether	421	U J	82.8	421
117-81-7	bis(2-ethylhexyl)phthalate	421	U	9.44	421
85-68-7	Butylbenzylphthalate	421	U	8.64	421
105-60-2	Caprolactam	421	U	8.42	421
86-74-8	Carbazole	421	U	6.02	421
218-01-9	Chrysene	42.1	U	6.01	42.1
84-74-2	Di-n-butylphthalate	39.5	J	10.9	421
117-84-0	Di-n-octylphthalate	421	U	18.6	421
53-70-3	Dibenz(a,h)anthracene	8.42	U	7.59	8.42
132-64-9	Dibenzofuran	421	U	4.87	421
84-66-2	Diethylphthalate	421	U	8.74	421
131-11-3	Dimethyl-phthalate	421	U	12.3	421
206-44-0	Fluoranthene	42.1	U	6.20	42.1
86-73-7	Fluorene	42.1	U	5.10	42.1
118-74-1	Hexachlorobenzene	421	U	8.87	421
87-68-3	Hexachlorobutadiene	421	U	78.5	421
77-47-4	Hexachlorocyclopentadiene	421	U	54.0	421
67-72-1	Hexachloroethane	421	U	133	421
193-39-5	Indeno(1,2,3-cd)pyrene	8.42	U	8.42	8.42
78-59-1	Isophorone	421	U	6.84	421
91-20-3	Naphthalene	42.1	U	8.42	42.1
98-95-3	Nitrobenzene	421	U	69.4	421
87-86-5	Pentachlorophenol	2100	U	79.1	2100
85-01-8	Phenanthrene	42.1	U	1.91	42.1
108-95-2	Phenol	421	U	10.9	421

C

C-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204100719

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP1S041006

Contract:

Lab File ID: 2041008/B2985

Lab Sample ID: 20410071910

Date Collected: 10/06/04 Time: 0000

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/08/04 Time: 1523

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 281151 Analytical Batch: 281243

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	42.1	U	6.43	42.1
1319-77-3M	m,p-Cresol	421	U	17.7	421
621-64-7	N-Nitroso-di-n-propylamine	421	U	9.75	421
86-30-6	N-Nitrosodiphenylamine	421	U	18.1	421
95-48-7	o-Cresol	421	U	123	421

CR

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281140 Analytical Batch: 281269

CONCENTRATION UNITS: ug/kg

Sample ID 21SS01S041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071901

Date Collected 10/06/04 Time: 1115

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/09/04 Time: 2210

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2041009/SV15020

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	4.85	U	0.570	4.85
72-55-9	4,4'-DDE	4.85	U	0.789	4.85
50-29-3	4,4'-DDT	4.85	U	0.303	4.85
309-00-2	Aldrin	2.43	U	0.388	2.43
60-57-1	Dieldrin	4.85	U	0.340	4.85
959-98-8	Endosulfan I	2.43	U	0.413	2.43
33213-65-9	Endosulfan II	4.85	U	0.680	4.85
1031-07-8	Endosulfan sulfate	4.85	U	0.643	4.85
72-20-8	Endrin	4.85	U	0.413	4.85
7421-93-4	Endrin aldehyde	4.85	U	0.813	4.85
53494-70-5	Endrin ketone	4.85	U	1.02	4.85
76-44-8	Heptachlor	2.43	U	0.255	2.43
1024-57-3	Heptachlor epoxide	2.43	U	0.862	2.43
72-43-5	Methoxychlor	24.3	U	1.52	24.3
8001-35-2	Toxaphene	243	U	11.4	243
319-84-6	alpha-BHC	2.43	U	0.388	2.43
5103-71-9	alpha-Chlordane	2.43	U	0.437	2.43
319-85-7	beta-BHC	4.85	U	0.655	4.85
319-86-8	delta-BHC	2.43	U	0.388	2.43
58-89-9	gamma-BHC (Lindane)	2.43	U	0.765	2.43
5103-74-2	gamma-Chlordane	2.43	U	0.534	2.43

C.K

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID 21SS02S041006
Lab Code: LA024 Case No.:
Contract:
Matrix: Soil
SAS No.: SDG No.: 204100719
Sample wt/vol: 30 Units: g
Lab Sample ID: 20410071902
Level: (low/med) LOW
Date Collected 10/06/04 Time: 1125
% Moisture: 18 decanted: (Y/N)
Date Received: 10/07/04
GC Column: RTX-1701-3 ID: .53 (mm)
Date Extracted: 10/07/04
Concentrated Extract Volume: 10000 (µL)
Date Analyzed: 10/15/04 Time: 0803
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method: 3550B
GPC Cleanup: (Y/N) N pH:
Analytical Method: SW-846 8081
Prep Batch: 281140 Analytical Batch: 281562
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
CONCENTRATION UNITS: ug/kg
Lab File ID: 2041014/SV3036

CAS NO.	COMPOUND	RESULT		MDL	RL	
72-54-8	4,4'-DDD	4.92	U	0.578	4.92	
72-55-9	4,4'-DDE	1.67	J	0.799	4.92	OP
50-29-3	4,4'-DDT	4.92	U J	0.307	4.92	C
309-00-2	Aldrin	2.46	U	0.393	2.46	
60-57-1	Dieldrin	4.92	U	0.344	4.92	
959-98-8	Endosulfan I	2.46	U	0.418	2.46	
33213-65-9	Endosulfan II	9.71	J	0.689	4.92	P
1031-07-8	Endosulfan sulfate	4.92	U	0.652	4.92	
72-20-8	Endrin	4.92	U	0.418	4.92	
7421-93-4	Endrin aldehyde	4.92	U J	0.824	4.92	K
53494-70-5	Endrin ketone	4.92	U	1.03	4.92	
76-44-8	Heptachlor	2.46	U	0.258	2.46	
1024-57-3	Heptachlor epoxide	2.46	U	0.873	2.46	
72-43-5	Methoxychlor	24.6	U	1.54	24.6	
8001-35-2	Toxaphene	246	U	11.5	246	
319-84-6	alpha-BHC	2.46	U	0.393	2.46	
5103-71-9	alpha-Chlordane	2.46	U	0.443	2.46	
319-85-7	beta-BHC	4.92	U	0.664	4.92	
319-86-8	delta-BHC	2.46	U	0.393	2.46	
58-89-9	gamma-BHC (Lindane)	2.46	U	0.775	2.46	
5103-74-2	gamma-Chlordane	2.46	U	0.541	2.46	

C.M

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 281183 Analytical Batch: 281266

Sample ID 21EB1W041006
Contract:
SAS No.: SDG No.: 204100719
Lab Sample ID: 20410071906
Date Collected 10/06/04 Time: 1105
Date Received: 10/07/04
Date Extracted: 10/08/04
Date Analyzed: 10/08/04 Time: 2000
Dilution Factor: 1 Analyst: HJL
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS6B
Lab File ID: 2041008/SV6018

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00627	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

C.P

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281183 Analytical Batch: 281266

CONCENTRATION UNITS: ug/L

Sample ID 21EB2W041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071907

Date Collected 10/06/04 Time: 1205

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/08/04 Time: 2029

Dilution Factor: 1 Analyst: HJL

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6B

Lab File ID: 2041008/SV6019

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00627	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

N.L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281140 Analytical Batch: 281269

CONCENTRATION UNITS: ug/kg

Sample ID 21DP1S041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071910

Date Collected 10/06/04 Time: 0000

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/09/04 Time: 2307

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2041009/SV15023

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	5.10	U	0.600	5.10
72-55-9	4,4'-DDE	5.10	U	0.829	5.10
50-29-3	4,4'-DDT	5.10	U	0.319	5.10
309-00-2	Aldrin	2.55	U	0.408	2.55
60-57-1	Dieldrin	5.10	U	0.357	5.10
959-98-8	Endosulfan I	2.55	U	0.434	2.55
33213-65-9	Endosulfan II	5.10	U	0.714	5.10
1031-07-8	Endosulfan sulfate	5.10	U	0.676	5.10
72-20-8	Endrin	5.10	U	0.434	5.10
7421-93-4	Endrin aldehyde	5.10	U	0.855	5.10
53494-70-5	Endrin ketone	5.10	U	1.07	5.10
76-44-8	Heptachlor	2.55	U	0.268	2.55
1024-57-3	Heptachlor epoxide	2.55	U	0.906	2.55
72-43-5	Methoxychlor	25.5	U	1.59	25.5
8001-35-2	Toxaphene	255	U	12.0	255
319-84-6	alpha-BHC	2.55	U	0.408	2.55
5103-71-9	alpha-Chlordane	2.55	U	0.459	2.55
319-85-7	beta-BHC	5.10	U	0.689	5.10
319-86-8	delta-BHC	2.55	U	0.408	2.55
58-89-9	gamma-BHC (Lindane)	2.55	U	0.804	2.55
5103-74-2	gamma-Chlordane	2.55	U	0.561	2.55

C.N

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281141 Analytical Batch: 281310

CONCENTRATION UNITS: ug/kg

Sample ID 21SS01S041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071901

Date Collected 10/06/04 Time: 1115

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/11/04 Time: 1028

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6B

Lab File ID: 2041011/SV6003

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	48.5	U	3.67	48.5
11104-28-2	Aroclor-1221	48.5	U	11.1	48.5
11141-16-5	Aroclor-1232	48.5	U	12.2	48.5
53469-21-9	Aroclor-1242	48.5	U	14.2	48.5
12672-29-6	Aroclor-1248	48.5	U	9.48	48.5
11097-69-1	Aroclor-1254	48.5	U	7.88	48.5
11096-82-5	Aroclor-1260	14.9	J	3.67	48.5

CM

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 18 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281141 Analytical Batch: 281563

CONCENTRATION UNITS: ug/kg

Sample ID 21SS02S041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071902

Date Collected 10/06/04 Time: 1125

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/15/04 Time: 0904

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2041014/SV3038

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	49.2	U	3.71	49.2
11104-28-2	Aroclor-1221	49.2	U	11.3	49.2
11141-16-5	Aroclor-1232	49.2	U	12.4	49.2
53469-21-9	Aroclor-1242	49.2	U	14.4	49.2
12672-29-6	Aroclor-1248	49.2	U	9.60	49.2
11097-69-1	Aroclor-1254	49.2	U	7.98	49.2
11096-82-5	Aroclor-1260	130		3.71	49.2

C.P

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281184 Analytical Batch: 281267

CONCENTRATION UNITS: ug/L

Sample ID 21EB1W041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071906

Date Collected 10/06/04 Time: 1105

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/08/04 Time: 2000

Dilution Factor: 1 Analyst: HJL

Prep Method: 3510C

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6B

Lab File ID: 2041008/SV6018

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

C.P

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281184 Analytical Batch: 281267

CONCENTRATION UNITS: ug/L

Sample ID 21EB2W041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071907

Date Collected 10/06/04 Time: 1205

Date Received: 10/07/04

Date Extracted: 10/08/04

Date Analyzed: 10/08/04 Time: 2029

Dilution Factor: 1 Analyst: HJL

Prep Method: 3510C

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6B

Lab File ID: 2041008/SV6019

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

C.N

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 281141 Analytical Batch: 281310

CONCENTRATION UNITS: ug/kg

Sample ID 21DP1S041006

Contract:

SAS No.: SDG No.: 204100719

Lab Sample ID: 20410071910

Date Collected 10/06/04 Time: 0000

Date Received: 10/07/04

Date Extracted: 10/07/04

Date Analyzed: 10/11/04 Time: 1129

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

Lab File ID: 2041011/SV11006

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	51.0	U	3.85	51.0
11104-28-2	Aroclor-1221	51.0	U	11.7	51.0
11141-16-5	Aroclor-1232	51.0	U	12.8	51.0
53469-21-9	Aroclor-1242	51.0	U	15.0	51.0
12672-29-6	Aroclor-1248	51.0	U	9.96	51.0
11097-69-1	Aroclor-1254	51.0	U	8.28	51.0
11096-82-5	Aroclor-1260	27.2	J	3.85	51.0

CR

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS01S041006

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204100719

Level: (low / med) | % Solids: 82.39 | Lab Sample ID: 20410071901

Date Received: 10/07/04 | Time: 1000 | Date Collected: 10/06/04 | Time: 1115

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	364	mg/kg	J	2.21	9.71	SW-846 6010B	P	Q, A
Antimony	2.91	mg/kg	U	0.17	2.91	SW-846 6010B	P	
Arsenic	1.94	mg/kg	U	0.31	1.94	SW-846 6010B	P	
Barium	2.86	mg/kg	JB	0.022	0.49	SW-846 6010B	P	F, mB, A, Z
Beryllium	0.11	mg/kg	~~B~~ JB	0.0024	0.24	SW-846 6010B	P	F, mB, A
Cadmium	0.048	mg/kg	~~B~~ J	0.0049	0.24	SW-846 6010B	P	
Calcium	1700	mg/kg	JB	1.10	4.85	SW-846 6010B	P	F
Chromium	2.00	mg/kg	JB	0.022	0.49	SW-846 6010B	P	F, mB, A
Cobalt	0.14	mg/kg	~~B~~ JB	0.024	0.49	SW-846 6010B	P	F
Copper	2.29	mg/kg	J	0.16	0.49	SW-846 6010B	P	Z
Iron	532	mg/kg	JB	0.70	4.85	SW-846 6010B	P	F, mB, A, Z
Lead	26.3	mg/kg	J	0.090	0.73	SW-846 6010B	P	Z
Magnesium	69.7	mg/kg	J	2.39	4.85	SW-846 6010B	P	Z
Manganese	4.10	mg/kg	JB	0.040	0.73	SW-846 6010B	P	F, mB, A
Mercury	0.025	mg/kg	JB	0.0024	0.012	SW-846 7471A	AV	F, mB
Nickel	0.45	mg/kg	~~B~~ J	0.021	1.94	SW-846 6010B	P	
Potassium	16.7	mg/kg	J	1.89	9.71	SW-846 6010B	P	Z
Selenium	1.94	mg/kg	U	0.12	1.94	SW-846 6010B	P	
Silver	0.49	mg/kg	U	0.025	0.49	SW-846 6010B	P	
Sodium	27.6	mg/kg	~~B~~ JB	3.17	48.5	SW-846 6010B	P	F, mB
Thallium	0.52	mg/kg	~~B~~ JB	0.11	0.97	SW-846 6010B	P	F, mB
Vanadium	0.88	mg/kg	~~B~~ J	0.11	0.97	SW-846 6010B	P	
Zinc	12.1	mg/kg	J	0.36	0.97	SW-846 6010B	P	Z

O.K

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS02S041006

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204100719

Level: (low / med) | % Solids: 81.32 | Lab Sample ID: 20410071902

Date Received: 10/07/04 | Time: 1000 | Date Collected: 10/06/04 | Time: 1125

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	431	mg/kg		2.24	9.84	SW-846 6010B	P	
Antimony	2.95	mg/kg	U	0.17	2.95	SW-846 6010B	P	
Arsenic	1.97	mg/kg	U	0.32	1.97	SW-846 6010B	P	
Barium	3.37	mg/kg	JB	0.022	0.49	SW-846 6010B	P	F, MB
Beryllium	0.074	mg/kg	~~B~~ JB	0.0025	0.25	SW-846 6010B	P	F, MB
Cadmium	0.050	mg/kg	~~B~~ J	0.0049	0.25	SW-846 6010B	P	
Calcium	1580	mg/kg	JB	1.12	4.92	SW-846 6010B	P	F, MB
Chromium	2.25	mg/kg	JB	0.022	0.49	SW-846 6010B	P	F, MB
Cobalt	0.11	mg/kg	~~B~~ JB	0.025	0.49	SW-846 6010B	P	F
Copper	3.36	mg/kg		0.16	0.49	SW-846 6010B	P	
Iron	534	mg/kg	JB	0.71	4.92	SW-846 6010B	P	F, MB
Lead	35.3	mg/kg	B	0.091	0.74	SW-846 6010B	P	MB
Magnesium	78.2	mg/kg	B	2.42	4.92	SW-846 6010B	P	MB
Manganese	4.47	mg/kg	JB	0.041	0.74	SW-846 6010B	P	F, MB
Mercury	0.026	mg/kg	JB	0.0024	0.012	SW-846 7471A	AV	F, MB
Nickel	0.96	mg/kg	B	0.021	1.97	SW-846 6010B	P	MB
Potassium	43.3	mg/kg	B	1.91	9.84	SW-846 6010B	P	MB
Selenium	1.97	mg/kg	U	0.12	1.97	SW-846 6010B	P	
Silver	0.49	mg/kg	U	0.026	0.49	SW-846 6010B	P	
Sodium	51.6	mg/kg	JB	3.22	49.2	SW-846 6010B	P	F, MB
Thallium	0.34	mg/kg	~~B~~ JB	0.11	0.98	SW-846 6010B	P	F, MB
Vanadium	1.36	mg/kg		0.11	0.98	SW-846 6010B	P	
Zinc	15.4	mg/kg		0.36	0.98	SW-846 6010B	P	

CN

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 21EB1W041006
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 204100719
Level: (low / med)
% Solids:
Lab Sample ID: 20410071906
Date Received: 10/07/04
Time: 1000
Date Collected: 10/06/04
Time: 1105

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.021	0.20	SW-846 6010B	P
Antimony	0.0060	mg/L	U	0.0023	0.0060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0038	0.010	SW-846 6010B	P
Barium	0.00068	mg/L	~~B~~ J	0.00050	0.20	SW-846 6010B	P
Beryllium	0.00047	mg/L	~~B~~ J	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00020	0.0050	SW-846 6010B	P
Calcium	0.045	mg/L	~~B~~ J	0.044	5.00	SW-846 6010B	P
Chromium	0.0023	mg/L	~~B~~ J	0.00070	0.0050	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00050	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0039	0.025	SW-846 6010B	P
Iron	0.063	mg/L	~~B~~ J	0.0055	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0010	0.0030	SW-846 6010B	P
Magnesium	5.00	mg/L	U	0.045	5.00	SW-846 6010B	P
Manganese	0.0015	mg/L	~~B~~ J	0.00060	0.015	SW-846 6010B	P
Mercury	0.00005	mg/L	~~B~~ J	0.00003	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00040	0.040	SW-846 6010B	P
Potassium	5.00	mg/L	U	0.047	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0036	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00060	0.0050	SW-846 6010B	P
Sodium	0.17	mg/L	~~B~~ J	0.060	5.00	SW-846 6010B	P
Thallium	0.0041	mg/L		0.0016	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.0015	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0078	0.020	SW-846 6010B	P

c.f

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 21EB2W041006

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 204100719

Level: (low / med) % Solids:

Lab Sample ID: 20410071907

Date Received: 10/07/04 Time: 1000

Date Collected: 10/06/04 Time: 1205

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.021	0.20	SW-846 6010B	P
Antimony	0.0060	mg/L	U	0.0023	0.0060	SW-846 6010B	P
Arsenic	0.0051	mg/L	~~B~~ J	0.0038	0.010	SW-846 6010B	P
Barium	0.00067	mg/L	~~B~~ J	0.00050	0.20	SW-846 6010B	P
Beryllium	0.00052	mg/L	~~B~~ J	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00020	0.0050	SW-846 6010B	P
Calcium	5.00	mg/L	U	0.044	5.00	SW-846 6010B	P
Chromium	0.0015	mg/L	~~B~~ J	0.00070	0.0050	SW-846 6010B	P
Cobalt	0.00084	mg/L	~~B~~ J	0.00050	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0039	0.025	SW-846 6010B	P
Iron	0.068	mg/L	~~B~~ J	0.0055	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0010	0.0030	SW-846 6010B	P
Magnesium	5.00	mg/L	U	0.045	5.00	SW-846 6010B	P
Manganese	0.0018	mg/L	~~B~~ J	0.00060	0.015	SW-846 6010B	P
Mercury	0.00013	mg/L	~~B~~ J	0.00003	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00040	0.040	SW-846 6010B	P
Potassium	5.00	mg/L	U	0.047	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0036	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00060	0.0050	SW-846 6010B	P
Sodium	0.13	mg/L	~~B~~ J	0.060	5.00	SW-846 6010B	P
Thallium	0.0033	mg/L		0.0016	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.0015	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0078	0.020	SW-846 6010B	P

CN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21DP1S041006

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204100719

Level: (low / med) | % Solids: 78.38 | Lab Sample ID: 20410071910

Date Received: 10/07/04 | Time: 1000 | Date Collected: 10/06/04 | Time: 0000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	322	mg/kg		2.31	10.1	SW-846 6010B	P	
Antimony	3.04	mg/kg	U	0.17	3.04	SW-846 6010B	P	
Arsenic	2.03	mg/kg	U	0.33	2.03	SW-846 6010B	P	
Barium	5.49	mg/kg	JB	0.023	0.51	SW-846 6010B	P	F, mB, Z
Beryllium	0.065	mg/kg	~~B~~JB	0.0025	0.25	SW-846 6010B	P	F, mB
Cadmium	0.091	mg/kg	~~B~~J	0.0051	0.25	SW-846 6010B	P	
Calcium	1870	mg/kg	JB	1.15	5.06	SW-846 6010B	P	F
Chromium	1.70	mg/kg	JB	0.023	0.51	SW-846 6010B	P	F, mB
Cobalt	0.15	mg/kg	~~B~~JB	0.025	0.51	SW-846 6010B	P	F
Copper	3.87	mg/kg	J	0.16	0.51	SW-846 6010B	P	Z
Iron	373	mg/kg	JB	0.73	5.06	SW-846 6010B	P	F, mB, Z
Lead	13.7	mg/kg	J	0.094	0.76	SW-846 6010B	P	Z
Magnesium	36.6	mg/kg	J	2.49	5.06	SW-846 6010B	P	Z
Manganese	5.30	mg/kg	JB	0.042	0.76	SW-846 6010B	P	F, mB
Mercury	0.025	mg/kg	JB	0.0025	0.013	SW-846 7471A	AV	F, mB
Nickel	0.30	mg/kg	~~B~~J	0.022	2.03	SW-846 6010B	P	
Potassium	10.1	mg/kg	U	1.97	10.1	SW-846 6010B	P	
Selenium	2.03	mg/kg	U	0.13	2.03	SW-846 6010B	P	
Silver	0.51	mg/kg	U	0.027	0.51	SW-846 6010B	P	
Sodium	24.2	mg/kg	~~B~~JB	3.31	50.6	SW-846 6010B	P	F, mB
Thallium	0.40	mg/kg	~~B~~JB	0.11	1.01	SW-846 6010B	P	F, mB
Vanadium	0.72	mg/kg	~~B~~J	0.11	1.01	SW-846 6010B	P	
Zinc	19.6	mg/kg	J	0.37	1.01	SW-846 6010B	P	Z

C.N

FORM I - IN

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071901	21SS01S041006	Solid	10/06/2004 11:15	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	82.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071902	21SS02S041006	Solid	10/06/2004 11:25	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	81.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

CM

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071903	21SS03S041006	Solid	10/06/2004 11:35	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	80.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

CA

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071904	21SS04S041006	Solid	10/06/2004 11:45	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	80.8	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071905	21SS05S041006	Solid	10/06/2004 11:55	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	81.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410071910	21DP1S041006	Solid	10/06/2004 00:00	10/07/2004 10:00

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2004 16:00	LMC2	281152

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	78.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

CA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 19 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS6AS041028

Contract:

Lab File ID: 2041029/B3826

Lab Sample ID: 20410290801

Date Collected: 10/28/04 Time: 1505

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/29/04 Time: 2024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282377

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	8.20	U	8.20	8.20	
95-95-4	2,4,5-Trichlorophenol	410	U	12.2	410	
88-06-2	2,4,6-Trichlorophenol	410	U	10.9	410	
120-83-2	2,4-Dichlorophenol	410	U	9.41	410	
105-67-9	2,4-Dimethylphenol	410	U	102	410	
51-28-5	2,4-Dinitrophenol	2050	U	128	2050	
121-14-2	2,4-Dinitrotoluene	410	U	6.33	410	
606-20-2	2,6-Dinitrotoluene	410	U	21.6	410	
91-58-7	2-Chloronaphthalene	410	U	7.99	410	
95-57-8	2-Chlorophenol	410	U	69.8	410	
91-57-6	2-Methylnaphthalene	8.20	U	8.20	8.20	
88-74-4	2-Nitroaniline	2050	U J	10.2	2050	C
88-75-5	2-Nitrophenol	410	U	7.90	410	
91-94-1	3,3'-Dichlorobenzidine	820	U	23.0	820	
99-09-2	3-Nitroaniline	2050	U	5.50	2050	
534-52-1	2-Methyl-4,6-dinitrophenol	2050	U	40.9	2050	
101-55-3	4-Bromophenyl-phenylether	410	U	8.45	410	
59-50-7	4-Chloro-3-methylphenol	410	U	10.7	410	
106-47-8	4-Chloroaniline	410	U	24.2	410	
7005-72-3	4-Chlorophenyl-phenylether	410	U	14.5	410	
100-01-6	4-Nitroaniline	2050	U	6.06	2050	
100-02-7	4-Nitrophenol	2050	U J	6.10	2050	C
83-32-9	Acenaphthene	41.0	U	5.22	41.0	
208-96-8	Acenaphthylene	41.0	U	5.42	41.0	
98-86-2	Acetophenone	410	U	17.5	410	
120-12-7	Anthracene	41.0	U	5.50	41.0	
1912-24-9	Atrazine (Aatrex)	820	U J	14.0	820	C, R
100-52-7	Benzaldehyde	820	U R	15.2	820	C
56-55-3	Benzo(a)anthracene	8.20	U	4.29	8.20	
50-32-8	Benzo(a)pyrene	8.20	U	3.74	8.20	

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 19 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS6AS041028

Contract:

Lab File ID: 2041029/B3826

Lab Sample ID: 20410290801

Date Collected: 10/28/04 Time: 1505

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/29/04 Time: 2024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282377

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	8.20	U	8.20	8.20	
191-24-2	Benzo(g,h,i)perylene	41.0	U	7.39	41.0	
207-08-9	Benzo(k)fluoranthene	8.20	U	8.20	8.20	
92-52-4	Biphenyl	410	U	6.71	410	
111-91-1	Bis(2-Chloroethoxy)methane	410	U	10.8	410	
111-44-4	Bis(2-Chloroethyl)ether	410	U	72.3	410	
108-60-1	bis(2-Chloroisopropyl)ether	410	U	80.6	410	
117-81-7	bis(2-ethylhexyl)phthalate	410	U	9.19	410	
85-68-7	Butylbenzylphthalate	410	U	8.41	410	
105-60-2	Caprolactam	410	U J	8.20	410	C
86-74-8	Carbazole	410	U	5.86	410	
218-01-9	Chrysene	41.0	U	5.85	41.0	
84-74-2	Di-n-butylphthalate	410	U	10.6	410	
117-84-0	Di-n-octylphthalate	410	U	18.1	410	
53-70-3	Dibenz(a,h)anthracene	8.20	U J	7.39	8.20	C
132-64-9	Dibenzofuran	410	U	4.74	410	
84-66-2	Diethylphthalate	410	U	8.51	410	
131-11-3	Dimethyl-phthalate	410	U	12.0	410	
206-44-0	Fluoranthene	41.0	U	6.04	41.0	
86-73-7	Fluorene	41.0	U	4.97	41.0	
118-74-1	Hexachlorobenzene	410	U	8.63	410	
87-68-3	Hexachlorobutadiene	410	U J	76.4	410	C
77-47-4	Hexachlorocyclopentadiene	410	U J	52.5	410	C
67-72-1	Hexachloroethane	410	U	129	410	
193-39-5	Indeno(1,2,3-cd)pyrene	134		8.20	8.20	
78-59-1	Isophorone	410	U	6.66	410	
91-20-3	Naphthalene	41.0	U	8.20	41.0	
98-95-3	Nitrobenzene	410	U	67.6	410	
87-86-5	Pentachlorophenol	2050	U	77.0	2050	
85-01-8	Phenanthrene	41.0	U	1.86	41.0	
108-95-2	Phenol	410	U	10.6	410	

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 19 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS6AS041028

Contract:

Lab File ID: 2041029/B3826

Lab Sample ID: 20410290801

Date Collected: 10/28/04 Time: 1505

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/29/04 Time: 2024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282377

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	41.0	U	6.26	41.0
1319-77-3M	m,p-Cresol	410	U	17.3	410
621-64-7	N-Nitroso-di-n-propylamine	410	U	9.49	410
86-30-6	N-Nitrosodiphenylamine	410	U	17.6	410
95-48-7	o-Cresol	410	U	120	410

O.A

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS7AS041028

Contract:

Lab File ID: 2041030/B3849

Lab Sample ID: 20410290803

Date Collected: 10/28/04 Time: 1430

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 0934

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	7.84	U	7.84	7.84	
95-95-4	2,4,5-Trichlorophenol	392	U	11.7	392	
88-06-2	2,4,6-Trichlorophenol	392	U	10.5	392	
120-83-2	2,4-Dichlorophenol	392	U	9.01	392	
105-67-9	2,4-Dimethylphenol	392	U	97.4	392	
51-28-5	2,4-Dinitrophenol	1960	U	122	1960	
121-14-2	2,4-Dinitrotoluene	392	U	6.06	392	
606-20-2	2,6-Dinitrotoluene	392	U	20.7	392	
91-58-7	2-Chloronaphthalene	392	U	7.64	392	
95-57-8	2-Chlorophenol	392	U	66.8	392	
91-57-6	2-Methylnaphthalene	7.84	U	7.84	7.84	
88-74-4	2-Nitroaniline	1960	U J	9.80	1960	C
88-75-5	2-Nitrophenol	392	U	7.56	392	
91-94-1	3,3'-Dichlorobenzidine	784	U	22.0	784	
99-09-2	3-Nitroaniline	1960	U	5.26	1960	
534-52-1	2-Methyl-4,6-dinitrophenol	1960	U	39.1	1960	
101-55-3	4-Bromophenyl-phenylether	392	U	8.08	392	
59-50-7	4-Chloro-3-methylphenol	392	U	10.2	392	
106-47-8	4-Chloroaniline	392	U	23.2	392	
7005-72-3	4-Chlorophenyl-phenylether	392	U	13.9	392	
100-01-6	4-Nitroaniline	1960	U	5.80	1960	
100-02-7	4-Nitrophenol	1960	U	5.83	1960	
83-32-9	Acenaphthene	39.2	U	4.99	39.2	
208-96-8	Acenaphthylene	39.2	U	5.18	39.2	
98-86-2	Acetophenone	392	U	16.8	392	
120-12-7	Anthracene	39.2	U	5.26	39.2	
1912-24-9	Atrazine (Aatrex)	784	U J	13.4	784	C, R
100-52-7	Benzaldehyde	784	U R	14.5	784	C
56-55-3	Benzo(a)anthracene	29.0		4.10	7.84	
50-32-8	Benzo(a)pyrene	7.84	U	3.58	7.84	

C.R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS7AS041028

Contract:

Lab File ID: 2041030/B3849

Lab Sample ID: 20410290803

Date Collected: 10/28/04 Time: 1430

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 0934

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	7.84	U	7.84	7.84	
191-24-2	Benzo(g,h,i)perylene	39.2	U	7.07	39.2	
207-08-9	Benzo(k)fluoranthene	7.84	U	7.84	7.84	
92-52-4	Biphenyl	392	U	6.42	392	
111-91-1	Bis(2-Chloroethoxy)methane	392	U	10.4	392	
111-44-4	Bis(2-Chloroethyl)ether	392	U	69.2	392	
108-60-1	bis(2-Chloroisopropyl)ether	392	U	77.1	392	
117-81-7	bis(2-ethylhexyl)phthalate	20.0	~~J~~ B	8.79	392	MB
85-68-7	Butylbenzylphthalate	392	U	8.04	392	
105-60-2	Caprolactam	392	U J	7.84	392	C
86-74-8	Carbazole	392	U	5.61	392	
218-01-9	Chrysene	39.2	U	5.60	39.2	
84-74-2	Di-n-butylphthalate	14.7	J	10.1	392	
117-84-0	Di-n-octylphthalate	392	U	17.3	392	
53-70-3	Dibenz(a,h)anthracene	7.84	U J	7.07	7.84	C
132-64-9	Dibenzofuran	392	U	4.54	392	
84-66-2	Diethylphthalate	392	U	8.14	392	
131-11-3	Dimethyl-phthalate	392	U	11.5	392	
206-44-0	Fluoranthene	39.2	U	5.78	39.2	
86-73-7	Fluorene	39.2	U	4.75	39.2	
118-74-1	Hexachlorobenzene	392	U	8.26	392	
87-68-3	Hexachlorobutadiene	392	U J	73.1	392	C
77-47-4	Hexachlorocyclopentadiene	392	U	50.3	392	
67-72-1	Hexachloroethane	392	U	124	392	
193-39-5	Indeno(1,2,3-cd)pyrene	7.84	U	7.84	7.84	
78-59-1	Isophorone	392	U	6.37	392	
91-20-3	Naphthalene	39.2	U	7.84	39.2	
98-95-3	Nitrobenzene	392	U	64.6	392	
87-86-5	Pentachlorophenol	1960	U	73.7	1960	
85-01-8	Phenanthrene	39.2	U	1.78	39.2	
108-95-2	Phenol	392	U	10.2	392	

C.L

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS7AS041028

Contract:

Lab File ID: 2041030/B3849

Lab Sample ID: 20410290803

Date Collected: 10/28/04 Time: 1430

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 0934

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	39.2	U	5.99	39.2
1319-77-3M	m,p-Cresol	392	U	16.5	392
621-64-7	N-Nitroso-di-n-propylamine	392	U	9.08	392
86-30-6	N-Nitrosodiphenylamine	392	U	16.9	392
95-48-7	o-Cresol	392	U	115	392

CF

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS08S041028

Contract:

Lab File ID: 2041030/B3851

Lab Sample ID: 20410290805

Date Collected: 10/28/04 Time: 1515

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1008

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	6.81	U	6.81	6.81	
95-95-4	2,4,5-Trichlorophenol	341	U	10.2	341	
88-06-2	2,4,6-Trichlorophenol	341	U	9.09	341	
120-83-2	2,4-Dichlorophenol	341	U	7.82	341	
105-67-9	2,4-Dimethylphenol	341	U	84.6	341	
51-28-5	2,4-Dinitrophenol	1700	U	106	1700	
121-14-2	2,4-Dinitrotoluene	341	U	5.26	341	
606-20-2	2,6-Dinitrotoluene	341	U	18.0	341	
91-58-7	2-Chloronaphthalene	341	U	6.64	341	
95-57-8	2-Chlorophenol	341	U	58.0	341	
91-57-6	2-Methylnaphthalene	6.81	U	6.81	6.81	
88-74-4	2-Nitroaniline	1700	U J	8.51	1700	C
88-75-5	2-Nitrophenol	341	U	6.56	341	
91-94-1	3,3'-Dichlorobenzidine	681	U	19.1	681	
99-09-2	3-Nitroaniline	1700	U	4.57	1700	
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U	34.0	1700	
101-55-3	4-Bromophenyl-phenylether	341	U	7.02	341	
59-50-7	4-Chloro-3-methylphenol	341	U	8.89	341	
106-47-8	4-Chloroaniline	341	U	20.1	341	
7005-72-3	4-Chlorophenyl-phenylether	341	U	12.1	341	
100-01-6	4-Nitroaniline	1700	U	5.04	1700	
100-02-7	4-Nitrophenol	1700	U	5.07	1700	
83-32-9	Acenaphthene	34.1	U	4.33	34.1	
208-96-8	Acenaphthylene	34.1	U	4.50	34.1	
98-86-2	Acetophenone	341	U	14.6	341	
120-12-7	Anthracene	12.9	J	4.57	34.1	
1912-24-9	Atrazine (Aatrex)	681	U J	11.7	681	C, R
100-52-7	Benzaldehyde	681	U R	12.6	681	C
56-55-3	Benzo(a)anthracene	67.9		3.56	6.81	
50-32-8	Benzo(a)pyrene	61.8		3.11	6.81	

C.R

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS08S041028

Contract:

Lab File ID: 2041030/B3851

Lab Sample ID: 20410290805

Date Collected: 10/28/04 Time: 1515

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1008

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	118		6.81	6.81	
191-24-2	Benzo(g,h,i)perylene	85.4		6.14	34.1	
207-08-9	Benzo(k)fluoranthene	56.2		6.81	6.81	
92-52-4	Biphenyl	341	U	5.57	341	
111-91-1	Bis(2-Chloroethoxy)methane	341	U	9.00	341	
111-44-4	Bis(2-Chloroethyl)ether	341	U	60.1	341	
108-60-1	bis(2-Chloroisopropyl)ether	341	U	67.0	341	
117-81-7	bis(2-ethylhexyl)phthalate	41.7	~~J~~ B	7.64	341	mB
85-68-7	Butylbenzylphthalate	341	U	6.99	341	
105-60-2	Caprolactam	341	U J	6.81	341	C
86-74-8	Carbazole	9.38	J	4.87	341	
218-01-9	Chrysene	73.1		4.86	34.1	
84-74-2	Di-n-butylphthalate	11.9	J	8.81	341	
117-84-0	Di-n-octylphthalate	341	U	15.1	341	
53-70-3	Dibenz(a,h)anthracene	6.81	U J	6.14	6.81	C
132-64-9	Dibenzofuran	341	U	3.94	341	
84-66-2	Diethylphthalate	341	U	7.07	341	
131-11-3	Dimethyl-phthalate	341	U	9.99	341	
206-44-0	Fluoranthene	76.3		5.02	34.1	
86-73-7	Fluorene	34.1	U	4.13	34.1	
118-74-1	Hexachlorobenzene	341	U	7.17	341	
87-68-3	Hexachlorobutadiene	341	U J	63.5	341	C
77-47-4	Hexachlorocyclopentadiene	341	U	43.7	341	
67-72-1	Hexachloroethane	341	U	107	341	
193-39-5	Indeno(1,2,3-cd)pyrene	164		6.81	6.81	
78-59-1	Isophorone	341	U	5.53	341	
91-20-3	Naphthalene	34.1	U	6.81	34.1	
98-95-3	Nitrobenzene	341	U	56.1	341	
87-86-5	Pentachlorophenol	1700	U	64.0	1700	
85-01-8	Phenanthrene	13.1	J	1.55	34.1	
108-95-2	Phenol	341	U	8.83	341	

C·L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS08S041028

Contract:

Lab File ID: 2041030/B3851

Lab Sample ID: 20410290805

Date Collected: 10/28/04 Time: 1515

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1008

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	69.6		5.20	34.1
1319-77-3M	m,p-Cresol	341	U	14.3	341
621-64-7	N-Nitroso-di-n-propylamine	341	U	7.88	341
86-30-6	N-Nitrosodiphenylamine	341	U	14.7	341
95-48-7	o-Cresol	341	U	99.8	341

C.L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS09S041028

Contract:

Lab File ID: 2041030/B3852

Lab Sample ID: 20410290806

Date Collected: 10/28/04 Time: 1520

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	7.15	U	7.15	7.15	
95-95-4	2,4,5-Trichlorophenol	357	U	10.7	357	
88-06-2	2,4,6-Trichlorophenol	357	U	9.54	357	
120-83-2	2,4-Dichlorophenol	357	U	8.21	357	
105-67-9	2,4-Dimethylphenol	357	U	88.8	357	
51-28-5	2,4-Dinitrophenol	1790	U	112	1790	
121-14-2	2,4-Dinitrotoluene	357	U	5.52	357	
606-20-2	2,6-Dinitrotoluene	357	U	18.8	357	
91-58-7	2-Chloronaphthalene	357	U	6.96	357	
95-57-8	2-Chlorophenol	357	U	60.9	357	
91-57-6	2-Methylnaphthalene	7.15	U	7.15	7.15	
88-74-4	2-Nitroaniline	1790	U J	8.93	1790	C
88-75-5	2-Nitrophenol	357	U	6.89	357	
91-94-1	3,3'-Dichlorobenzidine	715	U	20.0	715	
99-09-2	3-Nitroaniline	1790	U	4.80	1790	
534-52-1	2-Methyl-4,6-dinitrophenol	1790	U	35.6	1790	
101-55-3	4-Bromophenyl-phenylether	357	U	7.36	357	
59-50-7	4-Chloro-3-methylphenol	357	U	9.32	357	
106-47-8	4-Chloroaniline	357	U	21.1	357	
7005-72-3	4-Chlorophenyl-phenylether	357	U	12.7	357	
100-01-6	4-Nitroaniline	1790	U	5.28	1790	
100-02-7	4-Nitrophenol	1790	U	5.32	1790	
83-32-9	Acenaphthene	35.7	U	4.55	35.7	
208-96-8	Acenaphthylene	35.7	U	4.72	35.7	
98-86-2	Acetophenone	357	U	15.3	357	
120-12-7	Anthracene	7.48	J	4.80	35.7	
1912-24-9	Atrazine (Aatrex)	715	U J	12.2	715	C, R
100-52-7	Benzaldehyde	715	U R	13.2	715	C
56-55-3	Benzo(a)anthracene	56.3		3.74	7.15	
50-32-8	Benzo(a)pyrene	43.1		3.26	7.15	

C · R

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS09S041028

Contract:

Lab File ID: 2041030/B3852

Lab Sample ID: 20410290806

Date Collected: 10/28/04 Time: 1520

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	60.5		7.15	7.15	
191-24-2	Benzo(g,h,i)perylene	53.3		6.44	35.7	
207-08-9	Benzo(k)fluoranthene	37.6		7.15	7.15	
92-52-4	Biphenyl	357	U	5.85	357	
111-91-1	Bis(2-Chloroethoxy)methane	357	U	9.44	357	
111-44-4	Bis(2-Chloroethyl)ether	357	U	63.0	357	
108-60-1	bis(2-Chloroisopropyl)ether	357	U	70.3	357	
117-81-7	bis(2-ethylhexyl)phthalate	18.0	~~J~~ B	8.01	357	mB
85-68-7	Butylbenzylphthalate	357	U	7.33	357	
105-60-2	Caprolactam	357	U J	7.15	357	C
86-74-8	Carbazole	7.97	J	5.11	357	
218-01-9	Chrysene	46.2		5.10	35.7	
84-74-2	Di-n-butylphthalate	11.4	J	9.25	357	
117-84-0	Di-n-octylphthalate	357	U	15.8	357	
53-70-3	Dibenz(a,h)anthracene	7.15	U J	6.44	7.15	C
132-64-9	Dibenzofuran	357	U	4.14	357	
84-66-2	Diethylphthalate	357	U	7.42	357	
131-11-3	Dimethyl-phthalate	357	U	10.5	357	
206-44-0	Fluoranthene	57.9		5.26	35.7	
86-73-7	Fluorene	35.7	U	4.33	35.7	
118-74-1	Hexachlorobenzene	357	U	7.53	357	
87-68-3	Hexachlorobutadiene	357	U J	66.6	357	C
77-47-4	Hexachlorocyclopentadiene	357	U	45.8	357	
67-72-1	Hexachloroethane	357	U	113	357	
193-39-5	Indeno(1,2,3-cd)pyrene	147		7.15	7.15	
78-59-1	Isophorone	357	U	5.80	357	
91-20-3	Naphthalene	35.7	U	7.15	35.7	
98-95-3	Nitrobenzene	357	U	58.9	357	
87-86-5	Pentachlorophenol	1790	U	67.1	1790	
85-01-8	Phenanthrene	14.9	J	1.62	35.7	
108-95-2	Phenol	357	U	9.27	357	

C.N

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS09S041028

Contract:

Lab File ID: 2041030/B3852

Lab Sample ID: 20410290806

Date Collected: 10/28/04 Time: 1520

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1024

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	45.6		5.46	35.7
1319-77-3M	m,p-Cresol	357	U	15.1	357
621-64-7	N-Nitroso-di-n-propylamine	357	U	8.27	357
86-30-6	N-Nitrosodiphenylamine	357	U	15.4	357
95-48-7	o-Cresol	357	U	105	357

o.k

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS10S041028

Contract:

Lab File ID: 2041030/B3862

Lab Sample ID: 20410290807

Date Collected: 10/28/04 Time: 1450

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1305

Dilution Factor: 3 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	23.3	U	23.3	23.3	
95-95-4	2,4,5-Trichlorophenol	1170	U	34.8	1170	
88-06-2	2,4,6-Trichlorophenol	1170	U	31.1	1170	
120-83-2	2,4-Dichlorophenol	1170	U	26.8	1170	
105-67-9	2,4-Dimethylphenol	1170	U	290	1170	
51-28-5	2,4-Dinitrophenol	5830	U	364	5830	
121-14-2	2,4-Dinitrotoluene	1170	U	18.0	1170	
606-20-2	2,6-Dinitrotoluene	1170	U	61.5	1170	
91-58-7	2-Chloronaphthalene	1170	U	22.7	1170	
95-57-8	2-Chlorophenol	1170	U	199	1170	
91-57-6	2-Methylnaphthalene	23.3	U	23.3	23.3	
88-74-4	2-Nitroaniline	5830	U J	29.1	5830	C
88-75-5	2-Nitrophenol	1170	U	22.5	1170	
91-94-1	3,3'-Dichlorobenzidine	2330	U	65.4	2330	
99-09-2	3-Nitroaniline	5830	U	15.6	5830	
534-52-1	2-Methyl-4,6-dinitrophenol	5830	U	116	5830	
101-55-3	4-Bromophenyl-phenylether	1170	U	24.0	1170	
59-50-7	4-Chloro-3-methylphenol	1170	U	30.4	1170	
106-47-8	4-Chloroaniline	1170	U	68.9	1170	
7005-72-3	4-Chlorophenyl-phenylether	1170	U	41.3	1170	
100-01-6	4-Nitroaniline	5830	U	17.2	5830	
100-02-7	4-Nitrophenol	5830	U	17.3	5830	
83-32-9	Acenaphthene	117	U	14.8	117	
208-96-8	Acenaphthylene	151		15.4	117	
98-86-2	Acetophenone	1170	U	49.8	1170	
120-12-7	Anthracene	272		15.6	117	
1912-24-9	Atrazine (Aatrex)	2330	U J	39.9	2330	C, R
100-52-7	Benzaldehyde	2330	U R	43.1	2330	C
56-55-3	Benzo(a)anthracene	2170		12.2	23.3	
50-32-8	Benzo(a)pyrene	2600		10.6	23.3	

C.L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS10S041028

Contract:

Lab File ID: 2041030/B3862

Lab Sample ID: 20410290807

Date Collected: 10/28/04 Time: 1450

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1305

Dilution Factor: 3 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	23.3	U	23.3	23.3	
191-24-2	Benzo(g,h,i)perylene	1660		21.0	117	
207-08-9	Benzo(k)fluoranthene	5720		23.3	23.3	
92-52-4	Biphenyl	1170	U	19.1	1170	
111-91-1	Bis(2-Chloroethoxy)methane	1170	U	30.8	1170	
111-44-4	Bis(2-Chloroethyl)ether	1170	U	206	1170	
108-60-1	bis(2-Chloroisopropyl)ether	1170	U	229	1170	
117-81-7	bis(2-ethylhexyl)phthalate	63.2	~~J~~ B	26.1	1170	MB
85-68-7	Butylbenzylphthalate	1170	U	23.9	1170	
105-60-2	Caprolactam	1170	U J	23.3	1170	C
86-74-8	Carbazole	271	J	16.7	1170	
218-01-9	Chrysene	3130		16.6	117	
84-74-2	Di-n-butylphthalate	1170	U	30.2	1170	
117-84-0	Di-n-octylphthalate	1170	U	51.6	1170	
53-70-3	Dibenz(a,h)anthracene	23.3	U J	21.0	23.3	C
132-64-9	Dibenzofuran	1170	U	13.5	1170	
84-66-2	Diethylphthalate	1170	U	24.2	1170	
131-11-3	Dimethyl-phthalate	1170	U	34.2	1170	
206-44-0	Fluoranthene	4000		17.2	117	
86-73-7	Fluorene	47.5	J	14.1	117	
118-74-1	Hexachlorobenzene	1170	U	24.6	1170	
87-68-3	Hexachlorobutadiene	1170	U J	217	1170	C
77-47-4	Hexachlorocyclopentadiene	1170	U	149	1170	
67-72-1	Hexachloroethane	1170	U	367	1170	
193-39-5	Indeno(1,2,3-cd)pyrene	1830		23.3	23.3	
78-59-1	Isophorone	1170	U	18.9	1170	
91-20-3	Naphthalene	117	U	23.3	117	
98-95-3	Nitrobenzene	1170	U	192	1170	
87-86-5	Pentachlorophenol	5830	U	219	5830	
85-01-8	Phenanthrene	571		5.30	117	
108-95-2	Phenol	1170	U	30.2	1170	

C-L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS10S041028

Contract:

Lab File ID: 2041030/B3862

Lab Sample ID: 20410290807

Date Collected: 10/28/04 Time: 1450

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1305

Dilution Factor: 3 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	2560		17.8	117
1319-77-3M	m,p-Cresol	1170	U	49.1	1170
621-64-7	N-Nitroso-di-n-propylamine	1170	U	27.0	1170
86-30-6	N-Nitrosodiphenylamine	1170	U	50.2	1170
95-48-7	o-Cresol	1170	U	342	1170

C. L

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS11S041028

Contract:

Lab File ID: 2041030/B3853

Lab Sample ID: 20410290808

Date Collected: 10/28/04 Time: 1445

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1041

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	7.15	U	7.15	7.15	
95-95-4	2,4,5-Trichlorophenol	358	U	10.7	358	
88-06-2	2,4,6-Trichlorophenol	358	U	9.55	358	
120-83-2	2,4-Dichlorophenol	358	U	8.21	358	
105-67-9	2,4-Dimethylphenol	358	U	88.9	358	
51-28-5	2,4-Dinitrophenol	1790	U	112	1790	
121-14-2	2,4-Dinitrotoluene	358	U	5.53	358	
606-20-2	2,6-Dinitrotoluene	358	U	18.9	358	
91-58-7	2-Chloronaphthalene	358	U	6.97	358	
95-57-8	2-Chlorophenol	358	U	60.9	358	
91-57-6	2-Methylnaphthalene	7.15	U	7.15	7.15	
88-74-4	2-Nitroaniline	1790	U J	8.94	1790	C
88-75-5	2-Nitrophenol	358	U	6.89	358	
91-94-1	3,3'-Dichlorobenzidine	715	U	20.0	715	
99-09-2	3-Nitroaniline	1790	U	4.80	1790	
534-52-1	2-Methyl-4,6-dinitrophenol	1790	U	35.6	1790	
101-55-3	4-Bromophenyl-phenylether	358	U	7.37	358	
59-50-7	4-Chloro-3-methylphenol	358	U	9.33	358	
106-47-8	4-Chloroaniline	358	U	21.1	358	
7005-72-3	4-Chlorophenyl-phenylether	358	U	12.7	358	
100-01-6	4-Nitroaniline	1790	U	5.29	1790	
100-02-7	4-Nitrophenol	1790	U	5.32	1790	
83-32-9	Acenaphthene	35.8	U	4.55	35.8	
208-96-8	Acenaphthylene	35.8	U	4.72	35.8	
98-86-2	Acetophenone	358	U	15.3	358	
120-12-7	Anthracene	12.6	J	4.80	35.8	
1912-24-9	Atrazine (Aatrex)	715	U J	12.2	715	C, R
100-52-7	Benzaldehyde	715	U J	13.2	715	C
56-55-3	Benzo(a)anthracene	97.2		3.74	7.15	
50-32-8	Benzo(a)pyrene	93.9		3.26	7.15	

C.L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS11S041028

Contract:

Lab File ID: 2041030/B3853

Lab Sample ID: 20410290808

Date Collected: 10/28/04 Time: 1445

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1041

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL	
205-99-2	Benzo(b)fluoranthene	125		7.15	7.15	
191-24-2	Benzo(g,h,i)perylene	130		6.45	35.8	
207-08-9	Benzo(k)fluoranthene	86.1		7.15	7.15	
92-52-4	Biphenyl	358	U	5.85	358	
111-91-1	Bis(2-Chloroethoxy)methane	358	U	9.45	358	
111-44-4	Bis(2-Chloroethyl)ether	358	U	63.1	358	
108-60-1	bis(2-Chloroisopropyl)ether	358	U	70.3	358	
117-81-7	bis(2-ethylhexyl)phthalate	16.6	~~J~~ B	8.02	358	MB
85-68-7	Butylbenzylphthalate	358	U	7.34	358	
105-60-2	Caprolactam	358	U J	7.15	358	C
86-74-8	Carbazole	11.7	J	5.11	358	
218-01-9	Chrysene	116		5.10	35.8	
84-74-2	Di-n-butylphthalate	358	U	9.25	358	
117-84-0	Di-n-octylphthalate	358	U	15.8	358	
53-70-3	Dibenz(a,h)anthracene	7.15	U J	6.45	7.15	C
132-64-9	Dibenzofuran	358	U	4.14	358	
84-66-2	Diethylphthalate	358	U	7.42	358	
131-11-3	Dimethyl-phthalate	358	U	10.5	358	
206-44-0	Fluoranthene	153		5.27	35.8	
86-73-7	Fluorene	35.8	U	4.33	35.8	
118-74-1	Hexachlorobenzene	358	U	7.53	358	
87-68-3	Hexachlorobutadiene	358	U J	66.6	358	C
77-47-4	Hexachlorocyclopentadiene	358	U	45.8	358	
67-72-1	Hexachloroethane	358	U	113	358	
193-39-5	Indeno(1,2,3-cd)pyrene	209		7.15	7.15	
78-59-1	Isophorone	358	U	5.81	358	
91-20-3	Naphthalene	35.8	U	7.15	35.8	
98-95-3	Nitrobenzene	358	U	58.9	358	
87-86-5	Pentachlorophenol	1790	U	67.2	1790	
85-01-8	Phenanthrene	27.1	J	1.63	35.8	
108-95-2	Phenol	358	U	9.28	358	

J.A

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS11S041028

Contract:

Lab File ID: 2041030/B3853

Lab Sample ID: 20410290808

Date Collected: 10/28/04 Time: 1445

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1041

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	112		5.46	35.8
1319-77-3M	m,p-Cresol	358	U	15.1	358
621-64-7	N-Nitroso-di-n-propylamine	358	U	8.28	358
86-30-6	N-Nitrosodiphenylamine	358	U	15.4	358
95-48-7	o-Cresol	358	U	105	358

C.A

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB3W041028

Contract:

Lab File ID: 2041101/B3873

Lab Sample ID: 20410290813

Date Collected: 10/28/04 Time: 1415

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1204

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
120-82-1	1,2,4-Trichlorobenzene	10.0	U	0.269	10.0
90-12-0	1-Methylnaphthalene	0.200	U	0.114	0.200
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.207	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.420	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.292	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.438	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.400	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.306	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.207	10.0
95-57-8	2-Chlorophenol	10.0	U	0.221	10.0
91-57-6	2-Methylnaphthalene	1.00	U	0.164	1.00
88-74-4	2-Nitroaniline	50.0	U	0.150	50.0
88-75-5	2-Nitrophenol	10.0	U	0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.200	20.0
99-09-2	3-Nitroaniline	50.0	U	0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.759	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.283	10.0
106-47-8	4-Chloroaniline	10.0	U	0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.243	10.0
83-32-9	Acenaphthene	1.00	U	0.219	1.00
208-96-8	Acenaphthylene	1.00	U	0.156	1.00
98-86-2	Acetophenone	10.0	U	0.315	10.0
120-12-7	Anthracene	1.00	U	0.199	1.00
1912-24-9	Atrazine (Aatrex)	20.0	U	0.473	20.0
100-52-7	Benzaldehyde	20.0	U	0.470	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.205	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.130	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.244	0.400
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.199	1.00
207-08-9	Benzo(k)fluoranthene	0.500	U	0.269	0.500

C.L

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB3W041028

Contract:

Lab File ID: 2041101/B3873

Lab Sample ID: 20410290813

Date Collected: 10/28/04 Time: 1415

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1204

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	10.0	U	0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.585	5.00
85-68-7	Butylbenzylphthalate	10.0	U	0.356	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.214	4.00
218-01-9	Chrysene	1.00	U	0.311	1.00
84-74-2	Di-n-butylphthalate	10.0	U	0.735	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.140	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.287	0.400
132-64-9	Dibenzofuran	10.0	U	0.118	10.0
84-66-2	Diethylphthalate	10.0	U	0.342	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.206	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.532	10.0
206-44-0	Fluoranthene	1.00	U	0.231	1.00
86-73-7	Fluorene	1.00	U	0.230	1.00
118-74-1	Hexachlorobenzene	1.00	U	0.291	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.331	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.162	10.0
67-72-1	Hexachloroethane	2.00	U	0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.240	0.400
78-59-1	Isophorone	10.0	U	0.271	10.0
91-20-3	Naphthalene	1.00	U	0.211	1.00
100-01-6	4-Nitroaniline	50.0	U	0.119	50.0
98-95-3	Nitrobenzene	4.00	U	0.168	4.00
100-02-7	4-Nitrophenol	50.0	U	0.345	50.0
87-86-5	Pentachlorophenol	50.0	U	0.748	50.0
85-01-8	Phenanthrene	1.00	U	0.191	1.00
108-95-2	Phenol	10.0	U	0.132	10.0

a.L

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB3W041028

Contract:

Lab File ID: 2041101/B3873

Lab Sample ID: 20410290813

Date Collected: 10/28/04 Time: 1415

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1204

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	1.00	U	0.234	1.00
1319-77-3M	m,p-Cresol	10.0	U	0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.124	4.00
55-18-5	N-Nitrosodiethylamine	10.0	U	1.69	10.0
62-75-9	N-Nitrosodimethylamine	10.0	U	0.839	10.0
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.247	7.00
95-48-7	o-Cresol	10.0	U	0.235	10.0

QA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB4W041028

Contract:

Lab File ID: 2041101/B3874

Lab Sample ID: 20410290814

Date Collected: 10/28/04 Time: 1550

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1220

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
120-82-1	1,2,4-Trichlorobenzene	10.0	U	0.269	10.0
90-12-0	1-Methylnaphthalene	0.200	U	0.114	0.200
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.207	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.420	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.292	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.438	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.400	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.306	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.207	10.0
95-57-8	2-Chlorophenol	10.0	U	0.221	10.0
91-57-6	2-Methylnaphthalene	1.00	U	0.164	1.00
88-74-4	2-Nitroaniline	50.0	U	0.150	50.0
88-75-5	2-Nitrophenol	10.0	U	0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.200	20.0
99-09-2	3-Nitroaniline	50.0	U	0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.759	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.283	10.0
106-47-8	4-Chloroaniline	10.0	U	0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.243	10.0
83-32-9	Acenaphthene	1.00	U	0.219	1.00
208-96-8	Acenaphthylene	1.00	U	0.156	1.00
98-86-2	Acetophenone	10.0	U	0.315	10.0
120-12-7	Anthracene	1.00	U	0.199	1.00
1912-24-9	Atrazine (Aatrex)	20.0	U	0.473	20.0
100-52-7	Benzaldehyde	20.0	U	0.470	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.205	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.130	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.244	0.400
191-24-2	Benzo(g,h,i)perylene	1.00	U	0.199	1.00
207-08-9	Benzo(k)fluoranthene	0.500	U	0.269	0.500

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB4W041028

Contract:

Lab File ID: 2041101/B3874

Lab Sample ID: 20410290814

Date Collected: 10/28/04 Time: 1550

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1220

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	10.0	U	0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.585	5.00
85-68-7	Butylbenzylphthalate	10.0	U	0.356	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.214	4.00
218-01-9	Chrysene	1.00	U	0.311	1.00
84-74-2	Di-n-butylphthalate	10.0	U	0.735	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.140	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.287	0.400
132-64-9	Dibenzofuran	10.0	U	0.118	10.0
84-66-2	Diethylphthalate	10.0	U	0.342	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.206	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.532	10.0
206-44-0	Fluoranthene	1.00	U	0.231	1.00
86-73-7	Fluorene	1.00	U	0.230	1.00
118-74-1	Hexachlorobenzene	1.00	U	0.291	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.331	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.162	10.0
67-72-1	Hexachloroethane	2.00	U	0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.240	0.400
78-59-1	Isophorone	10.0	U	0.271	10.0
91-20-3	Naphthalene	1.00	U	0.211	1.00
100-01-6	4-Nitroaniline	50.0	U	0.119	50.0
98-95-3	Nitrobenzene	4.00	U	0.168	4.00
100-02-7	4-Nitrophenol	50.0	U	0.345	50.0
87-86-5	Pentachlorophenol	50.0	U	0.748	50.0
85-01-8	Phenanthrene	1.00	U	0.191	1.00
108-95-2	Phenol	10.0	U	0.132	10.0

c.t

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 21EB4W041028

Contract:

Lab File ID: 2041101/B3874

Lab Sample ID: 20410290814

Date Collected: 10/28/04 Time: 1550

Date Received: 10/29/04

Date Extracted: 11/01/04

Date Analyzed: 11/01/04 Time: 1220

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282359 Analytical Batch: 282442

CAS NO.	COMPOUND	RESULT		MDL	RL
129-00-0	Pyrene	1.00	U	0.234	1.00
1319-77-3M	m,p-Cresol	10.0	U	0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.124	4.00
55-18-5	N-Nitrosodiethylamine	10.0	U	1.69	10.0
62-75-9	N-Nitrosodimethylamine	10.0	U	0.839	10.0
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.247	7.00
95-48-7	o-Cresol	10.0	U	0.235	10.0

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP2S041028

Contract:

Lab File ID: 2041030/B3856

Lab Sample ID: 20410290815

Date Collected: 10/28/04 Time: 0000

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1129

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	8.47	U	8.47	8.47	
95-95-4	2,4,5-Trichlorophenol	423	U	12.6	423	
88-06-2	2,4,6-Trichlorophenol	423	U	11.3	423	
120-83-2	2,4-Dichlorophenol	423	U	9.72	423	
105-67-9	2,4-Dimethylphenol	423	U	105	423	
51-28-5	2,4-Dinitrophenol	2120	U	132	2120	
121-14-2	2,4-Dinitrotoluene	423	U	6.54	423	
606-20-2	2,6-Dinitrotoluene	423	U	22.3	423	
91-58-7	2-Chloronaphthalene	423	U	8.25	423	
95-57-8	2-Chlorophenol	423	U	72.1	423	
91-57-6	2-Methylnaphthalene	8.47	U	8.47	8.47	
88-74-4	2-Nitroaniline	2120	U J	10.6	2120	C
88-75-5	2-Nitrophenol	423	U	8.16	423	
91-94-1	3,3'-Dichlorobenzidine	847	U	23.7	847	
99-09-2	3-Nitroaniline	2120	U	5.68	2120	
534-52-1	2-Methyl-4,6-dinitrophenol	2120	U	42.2	2120	
101-55-3	4-Bromophenyl-phenylether	423	U	8.72	423	
59-50-7	4-Chloro-3-methylphenol	423	U	11.0	423	
106-47-8	4-Chloroaniline	423	U	25.0	423	
7005-72-3	4-Chlorophenyl-phenylether	423	U	15.0	423	
100-01-6	4-Nitroaniline	2120	U	6.26	2120	
100-02-7	4-Nitrophenol	2120	U	6.30	2120	
83-32-9	Acenaphthene	42.3	U	5.39	42.3	
208-96-8	Acenaphthylene	42.3	U	5.59	42.3	
98-86-2	Acetophenone	423	U	18.1	423	
120-12-7	Anthracene	42.3	U	5.68	42.3	
1912-24-9	Atrazine (Aatrex)	847	U J	14.5	847	C, R
100-52-7	Benzaldehyde	847	U R	15.6	847	C
56-55-3	Benzo(a)anthracene	8.47	U	4.43	8.47	
50-32-8	Benzo(a)pyrene	16.0	J	3.86	8.47	Z

O.L

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP2S041028

Contract:

Lab File ID: 2041030/B3856

Lab Sample ID: 20410290815

Date Collected: 10/28/04 Time: 0000

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1129

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
205-99-2	Benzo(b)fluoranthene	19.2	J	8.47	8.47	Z
191-24-2	Benzo(g,h,i)perylene	24.9	J	7.63	42.3	
207-08-9	Benzo(k)fluoranthene	16.2	J	8.47	8.47	Z
92-52-4	Biphenyl	423	U	6.93	423	
111-91-1	Bis(2-Chloroethoxy)methane	423	U	11.2	423	
111-44-4	Bis(2-Chloroethyl)ether	423	U	74.7	423	
108-60-1	bis(2-Chloroisopropyl)ether	423	U	83.3	423	
117-81-7	bis(2-ethylhexyl)phthalate	30.8	~~J~~ B	9.49	423	MB
85-68-7	Butylbenzylphthalate	423	U	8.68	423	
105-60-2	Caprolactam	423	U J	8.47	423	C
86-74-8	Carbazole	423	U	6.05	423	
218-01-9	Chrysene	15.9	J	6.04	42.3	
84-74-2	Di-n-butylphthalate	423	U	11.0	423	
117-84-0	Di-n-octylphthalate	423	U	18.7	423	
53-70-3	Dibenz(a,h)anthracene	8.47	U J	7.63	8.47	C
132-64-9	Dibenzofuran	423	U	4.90	423	
84-66-2	Diethylphthalate	423	U	8.79	423	
131-11-3	Dimethyl-phthalate	423	U	12.4	423	
206-44-0	Fluoranthene	18.1	J	6.23	42.3	
86-73-7	Fluorene	42.3	U	5.13	42.3	
118-74-1	Hexachlorobenzene	423	U	8.92	423	
87-68-3	Hexachlorobutadiene	423	U J	78.9	423	C
77-47-4	Hexachlorocyclopentadiene	423	U	54.3	423	
67-72-1	Hexachloroethane	423	U	133	423	
193-39-5	Indeno(1,2,3-cd)pyrene	149		8.47	8.47	
78-59-1	Isophorone	423	U	6.88	423	
91-20-3	Naphthalene	42.3	U	8.47	42.3	
98-95-3	Nitrobenzene	423	U	69.8	423	
87-86-5	Pentachlorophenol	2120	U	79.5	2120	
85-01-8	Phenanthrene	42.3	U	1.92	42.3	
108-95-2	Phenol	423	U	11.0	423	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204102908

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP2S041028

Contract:

Lab File ID: 2041030/B3856

Lab Sample ID: 20410290815

Date Collected: 10/28/04 Time: 0000

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1129

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 282357 Analytical Batch: 282382

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
129-00-0	Pyrene	14.5	J	6.47	42.3
1319-77-3M	m,p-Cresol	423	U	17.8	423
621-64-7	N-Nitroso-di-n-propylamine	423	U	9.80	423
86-30-6	N-Nitrosodiphenylamine	423	U	18.2	423
95-48-7	o-Cresol	423	U	124	423

C.N

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 19 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282470

CONCENTRATION UNITS: ug/kg

Sample ID 21SS6AS041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290801

Date Collected 10/28/04 Time: 1505

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1217

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11007

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	4.97	U	0.584	4.97
72-55-9	4,4'-DDE	4.97	U	0.807	4.97
50-29-3	4,4'-DDT	4.97	U	0.311	4.97
309-00-2	Aldrin	2.48	U	0.397	2.48
60-57-1	Dieldrin	4.97	U	0.348	4.97
959-98-8	Endosulfan I	2.48	U	0.422	2.48
33213-65-9	Endosulfan II	4.97	U	0.696	4.97
1031-07-8	Endosulfan sulfate	4.97	U	0.658	4.97
72-20-8	Endrin	4.97	U	0.422	4.97
7421-93-4	Endrin aldehyde	4.97	U	0.832	4.97
53494-70-5	Endrin ketone	4.97	U	1.04	4.97
76-44-8	Heptachlor	2.48	U	0.261	2.48
1024-57-3	Heptachlor epoxide	2.48	U	0.882	2.48
72-43-5	Methoxychlor	24.8	U	1.55	24.8
8001-35-2	Toxaphene	248	U	11.6	248
319-84-6	alpha-BHC	2.48	U	0.397	2.48
5103-71-9	alpha-Chlordane	2.48	U	0.447	2.48
319-85-7	beta-BHC	4.97	U	0.671	4.97
319-86-8	delta-BHC	2.48	U	0.397	2.48
58-89-9	gamma-BHC (Lindane)	2.48	U	0.782	2.48
5103-74-2	gamma-Chlordane	2.48	U	0.546	2.48

C.L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282472

CONCENTRATION UNITS: ug/kg

Sample ID 21SS7AS041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290803

Date Collected 10/28/04 Time: 1430

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 11/01/04 Time: 1148

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041101/SV11006

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	4.75	U	0.558	4.75
72-55-9	4,4'-DDE	4.75	U	0.772	4.75
50-29-3	4,4'-DDT	4.75	U	0.297	4.75
309-00-2	Aldrin	2.38	U	0.380	2.38
60-57-1	Dieldrin	4.75	U	0.333	4.75
959-98-8	Endosulfan I	2.38	U	0.404	2.38
33213-65-9	Endosulfan II	4.75	U	0.665	4.75
1031-07-8	Endosulfan sulfate	4.75	U	0.630	4.75
72-20-8	Endrin	4.75	U	0.404	4.75
7421-93-4	Endrin aldehyde	4.75	U	0.796	4.75
53494-70-5	Endrin ketone	4.75	U	0.998	4.75
76-44-8	Heptachlor	2.38	U	0.250	2.38
1024-57-3	Heptachlor epoxide	2.38	U	0.844	2.38
72-43-5	Methoxychlor	23.8	U	1.49	23.8
8001-35-2	Toxaphene	238	U	11.1	238
319-84-6	alpha-BHC	2.38	U	0.380	2.38
5103-71-9	alpha-Chlordane	2.38	U	0.428	2.38
319-85-7	beta-BHC	4.75	U	0.642	4.75
319-86-8	delta-BHC	2.38	U	0.380	2.38
58-89-9	gamma-BHC (Lindane)	2.38	U	0.749	2.38
5103-74-2	gamma-Chlordane	2.38	U	0.523	2.38

C.L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282470

CONCENTRATION UNITS: ug/kg

Sample ID 21SS08S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290805

Date Collected 10/28/04 Time: 1515

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1357

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11009

CAS NO.	COMPOUND	RESULT		MDL	RL	
72-54-8	4,4'-DDD	2.64	J	0.485	4.13	P
72-55-9	4,4'-DDE	7.15	J	0.671	4.13	P
50-29-3	4,4'-DDT	6.04	J	0.258	4.13	P
309-00-2	Aldrin	2.06	U	0.330	2.06	
60-57-1	Dieldrin	4.13	U	0.289	4.13	
959-98-8	Endosulfan I	2.06	U	0.351	2.06	
33213-65-9	Endosulfan II	1.12	J	0.578	4.13	
1031-07-8	Endosulfan sulfate	4.13	U	0.547	4.13	
72-20-8	Endrin	4.13	U	0.351	4.13	
7421-93-4	Endrin aldehyde	4.13	U	0.691	4.13	
53494-70-5	Endrin ketone	4.13	U	0.867	4.13	
76-44-8	Heptachlor	2.06	U	0.217	2.06	
1024-57-3	Heptachlor epoxide	2.06	U J	0.733	2.06	DP
72-43-5	Methoxychlor	20.6	U	1.29	20.6	
8001-35-2	Toxaphene	206	U	9.67	206	
319-84-6	alpha-BHC	2.06	U	0.330	2.06	
5103-71-9	alpha-Chlordane	2.06	U	0.372	2.06	
319-85-7	beta-BHC	4.13	U	0.557	4.13	
319-86-8	delta-BHC	2.06	U	0.330	2.06	
58-89-9	gamma-BHC (Lindane)	2.06	U	0.650	2.06	
5103-74-2	gamma-Chlordane	2.06	U	0.454	2.06	

a. L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282475

CONCENTRATION UNITS: ug/kg

Sample ID 21SS09S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290806

Date Collected 10/28/04 Time: 1520

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1143

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2041031/SV3008

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	4.33	U	0.509	4.33
72-55-9	4,4'-DDE	2.08	J	0.704	4.33
50-29-3	4,4'-DDT	4.33	U	0.271	4.33
309-00-2	Aldrin	2.17	U	0.347	2.17
60-57-1	Dieldrin	4.33	U	0.303	4.33
959-98-8	Endosulfan I	2.17	U	0.368	2.17
33213-65-9	Endosulfan II	2.38	J	0.606	4.33
1031-07-8	Endosulfan sulfate	4.33	U	0.574	4.33
72-20-8	Endrin	4.33	U	0.368	4.33
7421-93-4	Endrin aldehyde	4.33	U	0.726	4.33
53494-70-5	Endrin ketone	4.33	U	0.910	4.33
76-44-8	Heptachlor	2.17	U	0.227	2.17
1024-57-3	Heptachlor epoxide	2.17	U	0.769	2.17
72-43-5	Methoxychlor	21.7	U	1.35	21.7
8001-35-2	Toxaphene	217	U	10.1	217
319-84-6	alpha-BHC	2.17	U	0.347	2.17
5103-71-9	alpha-Chlordane	2.17	U	0.390	2.17
319-85-7	beta-BHC	4.33	U	0.585	4.33
319-86-8	delta-BHC	2.17	U	0.347	2.17
58-89-9	gamma-BHC (Lindane)	2.17	U	0.682	2.17
5103-74-2	gamma-Chlordane	2.17	U	0.476	2.17

P,OP

C.L

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282475

CONCENTRATION UNITS: ug/kg

Sample ID: 21SS10S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290807

Date Collected: 10/28/04 Time: 1450

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1213

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2041031/SV3009

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
72-54-8	4,4'-DDD	22.7	J	0.553	4.71	P
72-55-9	4,4'-DDE	4.71	U	0.765	4.71	
50-29-3	4,4'-DDT	21.4	J	0.294	4.71	P
309-00-2	Aldrin	2.36	U	0.377	2.36	
60-57-1	Dieldrin	4.71	U	0.330	4.71	
959-98-8	Endosulfan I	2.36	U	0.400	2.36	
33213-65-9	Endosulfan II	11.7	J	0.659	4.71	P
1031-07-8	Endosulfan sulfate	3.86	J	0.624	4.71	P, OP
72-20-8	Endrin	4.71	U	0.400	4.71	
7421-93-4	Endrin aldehyde	5.18	J	0.789	4.71	P, OP
53494-70-5	Endrin ketone	4.71	U	0.989	4.71	
76-44-8	Heptachlor	2.36	U	0.247	2.36	
1024-57-3	Heptachlor epoxide	2.36	U	0.836	2.36	
72-43-5	Methoxychlor	23.6	U	1.47	23.6	
8001-35-2	Toxaphene	236	U	11.0	236	
319-84-6	alpha-BHC	2.36	U	0.377	2.36	
5103-71-9	alpha-Chlordane	2.36	U	0.424	2.36	
319-85-7	beta-BHC	4.71	U	0.636	4.71	
319-86-8	delta-BHC	2.36	U	0.377	2.36	
58-89-9	gamma-BHC (Lindane)	2.36	U	0.742	2.36	
5103-74-2	gamma-Chlordane	2.36	U	0.518	2.36	

C.A

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282474

CONCENTRATION UNITS: ug/kg

Sample ID 21SS11S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290808

Date Collected 10/28/04 Time: 1445

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 11/02/04 Time: 1206

Dilution Factor: 2 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041102/SV11004

CAS NO.	COMPOUND	RESULT		MDL	RL	
72-54-8	4,4'-DDD	8.38	J	1.02	8.67	OP
72-55-9	4,4'-DDE	84.8	J	1.41	8.67	OP
50-29-3	4,4'-DDT	54.6		0.542	8.67	
309-00-2	Aldrin	4.33	U	0.693	4.33	
60-57-1	Dieldrin	8.67	U	0.607	8.67	
959-98-8	Endosulfan I	4.33	U	0.737	4.33	
33213-65-9	Endosulfan II	1.55	J	1.21	8.67	
1031-07-8	Endosulfan sulfate	8.67	U J	1.15	8.67	P,OP
72-20-8	Endrin	8.67	U	0.737	8.67	
7421-93-4	Endrin aldehyde	8.67	U	1.45	8.67	
53494-70-5	Endrin ketone	8.67	U	1.82	8.67	
76-44-8	Heptachlor	4.33	U	0.455	4.33	
1024-57-3	Heptachlor epoxide	4.33	U	1.54	4.33	
72-43-5	Methoxychlor	43.3	U	2.71	43.3	
8001-35-2	Toxaphene	433	U	20.3	433	
319-84-6	alpha-BHC	4.33	U	0.693	4.33	
5103-71-9	alpha-Chlordane	4.33	U	0.780	4.33	
319-85-7	beta-BHC	8.67	U	1.17	8.67	
319-86-8	delta-BHC	4.33	U	0.693	4.33	
58-89-9	gamma-BHC (Lindane)	4.33	U	1.37	4.33	
5103-74-2	gamma-Chlordane	4.33	U	0.954	4.33	

C.A

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282345 Analytical Batch: 282472

CONCENTRATION UNITS: ug/L

Sample ID 21EB3W041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290813

Date Collected 10/28/04 Time: 1415

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 11/01/04 Time: 1117

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041101/SV11005

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00627	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

C.R

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282345 Analytical Batch: 282470

CONCENTRATION UNITS: ug/L

Sample ID 21EB4W041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290814

Date Collected 10/28/04 Time: 1550

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1518

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11058

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00627	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

C. R

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282355 Analytical Batch: 282470

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP2S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290815

Date Collected: 10/28/04 Time: 0000

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/30/04 Time: 1604

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11013

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	5.13	U	0.603	5.13
72-55-9	4,4'-DDE	5.13	U	0.834	5.13
50-29-3	4,4'-DDT	5.13	U	0.321	5.13
309-00-2	Aldrin	2.57	U	0.410	2.57
60-57-1	Dieldrin	5.13	U	0.359	5.13
959-98-8	Endosulfan I	2.57	U	0.436	2.57
33213-65-9	Endosulfan II	5.13	U	0.718	5.13
1031-07-8	Endosulfan sulfate	5.13	U	0.680	5.13
72-20-8	Endrin	5.13	U	0.436	5.13
7421-93-4	Endrin aldehyde	5.13	U	0.859	5.13
53494-70-5	Endrin ketone	5.13	U	1.08	5.13
76-44-8	Heptachlor	2.57	U	0.269	2.57
1024-57-3	Heptachlor epoxide	2.57	U	0.911	2.57
72-43-5	Methoxychlor	25.7	U	1.60	25.7
8001-35-2	Toxaphene	257	U	12.0	257
319-84-6	alpha-BHC	2.57	U	0.410	2.57
5103-71-9	alpha-Chlordane	2.57	U	0.462	2.57
319-85-7	beta-BHC	5.13	U	0.693	5.13
319-86-8	delta-BHC	2.57	U	0.410	2.57
58-89-9	gamma-BHC (Lindane)	2.57	U	0.808	2.57
5103-74-2	gamma-Chlordane	2.57	U	0.564	2.57

P,OP

C.A

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 19 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282471

CONCENTRATION UNITS: ug/kg

Sample ID 21SS6AS041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290801

Date Collected 10/28/04 Time: 1505

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 0031

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11029

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	49.7	U	3.75	49.7
11104-28-2	Aroclor-1221	49.7	U	11.4	49.7
11141-16-5	Aroclor-1232	49.7	U	12.5	49.7
53469-21-9	Aroclor-1242	49.7	U	14.6	49.7
12672-29-6	Aroclor-1248	49.7	U	9.70	49.7
11097-69-1	Aroclor-1254	49.7	U	8.06	49.7
11096-82-5	Aroclor-1260	49.7	U	3.75	49.7

C. K

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282471

Sample ID 21SS7AS041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290803

Date Collected 10/28/04 Time: 1430

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 0135

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11031

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	47.5	U	3.59	47.5
11104-28-2	Aroclor-1221	47.5	U	10.9	47.5
11141-16-5	Aroclor-1232	47.5	U	11.9	47.5
53469-21-9	Aroclor-1242	47.5	U	13.9	47.5
12672-29-6	Aroclor-1248	47.5	U	9.28	47.5
11097-69-1	Aroclor-1254	47.5	U	7.71	47.5
11096-82-5	Aroclor-1260	47.5	U	3.59	47.5

C.F

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 3. decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282471

Sample ID 21SS08S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290805

Date Collected 10/28/04 Time: 1515

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 0138

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11033

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
12674-11-2	Aroclor-1016	41.3	U	3.12	41.3	
11104-28-2	Aroclor-1221	41.3	U	9.46	41.3	
11141-16-5	Aroclor-1232	41.3	U	10.4	41.3	
53469-21-9	Aroclor-1242	41.3	U	12.1	41.3	
12672-29-6	Aroclor-1248	41.3	U	8.06	41.3	
11097-69-1	Aroclor-1254	41.3	U	6.70	41.3	
11096-82-5	Aroclor-1260	67.9	J	3.12	41.3	P

C.R

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282476

Sample ID 21SS09S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290806

Date Collected 10/28/04 Time: 1520

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1750

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2041031/SV3020

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
12674-11-2	Aroclor-1016	43.3	U	3.27	43.3	
11104-28-2	Aroclor-1221	43.3	U	9.93	43.3	
11141-16-5	Aroclor-1232	43.3	U	10.9	43.3	
53469-21-9	Aroclor-1242	43.3	U	12.7	43.3	
12672-29-6	Aroclor-1248	43.3	U	8.46	43.3	
11097-69-1	Aroclor-1254	43.3	U	7.03	43.3	
11096-82-5	Aroclor-1260	195	J	3.27	43.3	C

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FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 15 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282476

Sample ID 21SS10S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290807

Date Collected 10/28/04 Time: 1450

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1820

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2041031/SV3021

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
12674-11-2	Aroclor-1016	47.1	U	3.56	47.1	
11104-28-2	Aroclor-1221	47.1	U	10.8	47.1	
11141-16-5	Aroclor-1232	47.1	U	11.8	47.1	
53469-21-9	Aroclor-1242	47.1	U	13.8	47.1	
12672-29-6	Aroclor-1248	47.1	U	9.20	47.1	
11097-69-1	Aroclor-1254	47.1	U	7.64	47.1	
11096-82-5	Aroclor-1260	150	J	3.56	47.1	C

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FORM I ORG-1

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282471

Sample ID 21SS11S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290808

Date Collected 10/28/04 Time: 1445

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 0345

Dilution Factor: 1 Analyst: DLB

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11037

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
12674-11-2	Aroclor-1016	43.3	U	3.27	43.3	
11104-28-2	Aroclor-1221	43.3	U	9.94	43.3	
11141-16-5	Aroclor-1232	43.3	U	10.9	43.3	
53469-21-9	Aroclor-1242	43.3	U	12.7	43.3	
12672-29-6	Aroclor-1248	43.3	U	8.46	43.3	
11097-69-1	Aroclor-1254	43.3	U	7.03	43.3	
11096-82-5	Aroclor-1260	78.1	J	3.27	43.3	P,OP

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282347 Analytical Batch: 282471

CONCENTRATION UNITS: ug/L

Sample ID 21EB3W041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290813

Date Collected 10/28/04 Time: 1415

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1446

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11057

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282347 Analytical Batch: 282471

Sample ID 21EB4W041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290814

Date Collected 10/28/04 Time: 1550

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1518

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

Lab File ID: 2041030/SV11058

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 282356 Analytical Batch: 282476

CONCENTRATION UNITS: ug/kg

Sample ID: 21DP2S041028

Contract:

SAS No.: SDG No.: 204102908

Lab Sample ID: 20410290815

Date Collected: 10/28/04 Time: 0000

Date Received: 10/29/04

Date Extracted: 10/29/04

Date Analyzed: 10/31/04 Time: 1951

Dilution Factor: 1 Analyst: SJT

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2041031/SV3024

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	51.3	U	3.87	51.3
11104-28-2	Aroclor-1221	51.3	U	11.8	51.3
11141-16-5	Aroclor-1232	51.3	U	12.9	51.3
53469-21-9	Aroclor-1242	51.3	U	15.0	51.3
12672-29-6	Aroclor-1248	51.3	U	10.0	51.3
11097-69-1	Aroclor-1254	51.3	U	8.33	51.3
11096-82-5	Aroclor-1260	21.7	J	3.87	51.3

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 21SS6AS041028
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 204102908
Level: (low / med)
% Solids: 80.51
Lab Sample ID: 20410290801
Date Received: 10/29/04
Time: 1015
Date Collected: 10/28/04
Time: 1505

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	116	mg/kg	B	2.27	9.94	SW-846 6010B	P	mB
Antimony	2.98	mg/kg	U	0.17	2.98	SW-846 6010B	P	
Arsenic	1.99	mg/kg	U	0.32	1.99	SW-846 6010B	P	
Barium	4.74	mg/kg		0.022	0.50	SW-846 6010B	P	
Beryllium	0.010	mg/kg	~~B~~ J	0.0025	0.25	SW-846 6010B	P	
Cadmium	0.022	mg/kg	B	0.0050	0.25	SW-846 6010B	P	mB
Calcium	232	mg/kg	JB	1.13	4.97	SW-846 6010B	P	mB, F, Z
Chromium	0.86	mg/kg		0.022	0.50	SW-846 6010B	P	
Cobalt	0.50	mg/kg	U	0.025	0.50	SW-846 6010B	P	
Copper	0.86	mg/kg	J	0.16	0.50	SW-846 6010B	P	Z
Iron	92.7	mg/kg	JB	0.72	4.97	SW-846 6010B	P	F, mB, Z
Lead	2.68	mg/kg	J	0.092	0.75	SW-846 6010B	P	Z
Magnesium	8.08	mg/kg	J	2.45	4.97	SW-846 6010B	P	Z
Manganese	1.94	mg/kg	JB	0.041	0.75	SW-846 6010B	P	F, Z
Mercury	0.012	mg/kg	U	0.0025	0.012	SW-846 7471A	AV	
Nickel	0.25	mg/kg	JB	0.021	1.99	SW-846 6010B	P	mB, F
Potassium	13.4	mg/kg	JB	1.93	9.94	SW-846 6010B	P	mB, F
Selenium	1.99	mg/kg	U	0.12	1.99	SW-846 6010B	P	
Silver	0.50	mg/kg	U	0.026	0.50	SW-846 6010B	P	
Sodium	15.3	mg/kg	JB	3.25	49.7	SW-846 6010B	P	mB, F
Thallium	0.27	mg/kg	B	0.11	0.99	SW-846 6010B	P	mB
Vanadium	0.60	mg/kg	~~B~~ J	0.11	0.99	SW-846 6010B	P	
Zinc	7.66	mg/kg	J	0.37	0.99	SW-846 6010B	P	Z

C.L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS7AS041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 84.15 | Lab Sample ID: 20410290803

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	141	mg/kg	JB	2.17	9.51	SW-846 6010B	P	Q, MB
Antimony	2.85	mg/kg	UJ	0.16	2.85	SW-846 6010B	P	Q
Arsenic	1.90	mg/kg	U	0.31	1.90	SW-846 6010B	P	
Barium	5.43	mg/kg		0.021	0.48	SW-846 6010B	P	
Beryllium	0.016	mg/kg	BJ	0.0024	0.24	SW-846 6010B	P	
Cadmium	0.024	mg/kg	B	0.0048	0.24	SW-846 6010B	P	MB
Calcium	100	mg/kg	JB	1.08	4.75	SW-846 6010B	P	MB, F
Chromium	1.16	mg/kg		0.021	0.48	SW-846 6010B	P	
Cobalt	0.48	mg/kg	U	0.024	0.48	SW-846 6010B	P	
Copper	0.90	mg/kg		0.15	0.48	SW-846 6010B	P	
Iron	85.9	mg/kg	JB	0.68	4.75	SW-846 6010B	P	F, MB
Lead	1.75	mg/kg		0.088	0.71	SW-846 6010B	P	
Magnesium	10.3	mg/kg		2.34	4.75	SW-846 6010B	P	
Manganese	0.80	mg/kg	JB	0.039	0.71	SW-846 6010B	P	F
Mercury	0.012	mg/kg	U	0.0024	0.012	SW-846 7471A	AV	
Nickel	0.11	mg/kg	JB	0.020	1.90	SW-846 6010B	P	MB, F
Potassium	16.4	mg/kg	JB	1.85	9.51	SW-846 6010B	P	MB, F
Selenium	1.90	mg/kg	U	0.12	1.90	SW-846 6010B	P	
Silver	0.033	mg/kg	B	0.025	0.48	SW-846 6010B	P	MB
Sodium	14.5	mg/kg	JB	3.11	47.5	SW-846 6010B	P	MB, F
Thallium	0.33	mg/kg	B	0.10	0.95	SW-846 6010B	P	MB
Vanadium	0.77	mg/kg	BJ	0.10	0.95	SW-846 6010B	P	
Zinc	6.55	mg/kg		0.35	0.95	SW-846 6010B	P	

C.R

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS08S041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 96.89 | Lab Sample ID: 20410290805

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 1515

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	218	mg/kg	B	1.87	8.19	SW-846 6010B	P	mB
Antimony	2.46	mg/kg	U	0.14	2.46	SW-846 6010B	P	
Arsenic	1.64	mg/kg	U	0.26	1.64	SW-846 6010B	P	
Barium	7.22	mg/kg		0.018	0.41	SW-846 6010B	P	
Beryllium	0.038	mg/kg	~~B~~ J	0.0020	0.20	SW-846 6010B	P	
Cadmium	0.096	mg/kg	B	0.0041	0.20	SW-846 6010B	P	mB
Calcium	2790	mg/kg	JB	0.93	4.100	SW-846 6010B	P	mB, F
Chromium	1.61	mg/kg		0.018	0.41	SW-846 6010B	P	
Cobalt	0.055	mg/kg	~~B~~ J	0.020	0.41	SW-846 6010B	P	
Copper	3.11	mg/kg		0.13	0.41	SW-846 6010B	P	
Iron	367	mg/kg	JB	0.59	4.100	SW-846 6010B	P	mB, F
Lead	14.9	mg/kg		0.076	0.61	SW-846 6010B	P	
Magnesium	54.5	mg/kg		2.02	4.100	SW-846 6010B	P	
Manganese	8.49	mg/kg	JB	0.034	0.61	SW-846 6010B	P	F
Mercury	0.014	mg/kg	B	0.0021	0.010	SW-846 7471A	AV	mB
Nickel	0.40	mg/kg	JB	0.017	1.64	SW-846 6010B	P	mB, F
Potassium	21.3	mg/kg	JB	1.59	8.19	SW-846 6010B	P	mB, F
Selenium	1.64	mg/kg	U	0.10	1.64	SW-846 6010B	P	
Silver	0.41	mg/kg	U	0.021	0.41	SW-846 6010B	P	
Sodium	28.0	mg/kg	JB	2.68	41.00	SW-846 6010B	P	mB, F
Thallium	0.35	mg/kg	B	0.089	0.82	SW-846 6010B	P	mB
Vanadium	1.23	mg/kg		0.089	0.82	SW-846 6010B	P	
Zinc	24.1	mg/kg		0.30	0.82	SW-846 6010B	P	

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FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS09S041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 92.34 | Lab Sample ID: 20410290806

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 1520

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	387	mg/kg	B	1.98	8.66	SW-846 6010B	P	MB
Antimony	2.60	mg/kg	U	0.15	2.600	SW-846 6010B	P	
Arsenic	1.73	mg/kg	U	0.28	1.73	SW-846 6010B	P	
Barium	5.39	mg/kg		0.019	0.43	SW-846 6010B	P	
Beryllium	0.054	mg/kg	~~B~~ J	0.0022	0.22	SW-846 6010B	P	
Cadmium	0.21	mg/kg	B	0.0043	0.22	SW-846 6010B	P	MB
Calcium	2240	mg/kg	JB	0.98	4.33	SW-846 6010B	P	MB, F
Chromium	4.64	mg/kg		0.019	0.43	SW-846 6010B	P	
Cobalt	0.14	mg/kg	~~B~~ J	0.022	0.43	SW-846 6010B	P	
Copper	7.11	mg/kg		0.14	0.43	SW-846 6010B	P	
Iron	697	mg/kg	JB	0.62	4.33	SW-846 6010B	P	MB, F
Lead	67.8	mg/kg		0.080	0.65	SW-846 6010B	P	
Magnesium	128	mg/kg		2.13	4.33	SW-846 6010B	P	
Manganese	5.84	mg/kg	JB	0.036	0.65	SW-846 6010B	P	F
Mercury	0.025	mg/kg	B	0.0021	0.011	SW-846 7471A	AV	MB
Nickel	1.30	mg/kg	JB	0.018	1.73	SW-846 6010B	P	MB, F
Potassium	29.9	mg/kg	JB	1.68	8.66	SW-846 6010B	P	MB, F
Selenium	1.73	mg/kg	U	0.11	1.73	SW-846 6010B	P	
Silver	0.43	mg/kg	U	0.023	0.43	SW-846 6010B	P	
Sodium	21.9	mg/kg	JB	2.83	43.3	SW-846 6010B	P	MB, F
Thallium	0.32	mg/kg	B	0.094	0.87	SW-846 6010B	P	MB
Vanadium	1.72	mg/kg		0.094	0.87	SW-846 6010B	P	
Zinc	43.7	mg/kg		0.32	0.87	SW-846 6010B	P	

C.K

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS10S041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 84.92 | Lab Sample ID: 20410290807

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 1450

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	815	mg/kg	B	2.15	9.42	SW-846 6010B	P	mB
Antimony	2.83	mg/kg	U	0.16	2.83	SW-846 6010B	P	
Arsenic	1.88	mg/kg	U	0.30	1.88	SW-846 6010B	P	
Barium	9.87	mg/kg		0.021	0.47	SW-846 6010B	P	
Beryllium	0.062	mg/kg	BJ	0.0024	0.24	SW-846 6010B	P	
Cadmium	0.48	mg/kg	B	0.0047	0.24	SW-846 6010B	P	mB
Calcium	3580	mg/kg	JB	1.07	4.71	SW-846 6010B	P	mB, F
Chromium	5.51	mg/kg		0.021	0.47	SW-846 6010B	P	
Cobalt	0.35	mg/kg	BJ	0.024	0.47	SW-846 6010B	P	
Copper	19.7	mg/kg		0.15	0.47	SW-846 6010B	P	
Iron	1060	mg/kg	JB	0.68	4.71	SW-846 6010B	P	mB, F
Lead	37.3	mg/kg		0.087	0.71	SW-846 6010B	P	
Magnesium	157	mg/kg		2.32	4.71	SW-846 6010B	P	
Manganese	22.2	mg/kg	JB	0.039	0.71	SW-846 6010B	P	F
Mercury	0.039	mg/kg	B	0.0023	0.012	SW-846 7471A	AV	mB
Nickel	3.21	mg/kg	JB	0.020	1.88	SW-846 6010B	P	mB, F
Potassium	30.7	mg/kg	JB	1.83	9.42	SW-846 6010B	P	mB, F
Selenium	1.88	mg/kg	U	0.12	1.88	SW-846 6010B	P	
Silver	0.47	mg/kg	U	0.025	0.47	SW-846 6010B	P	
Sodium	25.9	mg/kg	JB	3.08	47.1	SW-846 6010B	P	mB, F
Thallium	0.26	mg/kg	B	0.10	0.94	SW-846 6010B	P	mB
Vanadium	5.92	mg/kg		0.10	0.94	SW-846 6010B	P	
Zinc	143	mg/kg		0.35	0.94	SW-846 6010B	P	

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21SS11S041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 92.28 | Lab Sample ID: 20410290808

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 1445

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	934	mg/kg	B	1.96	8.600	SW-846 6010B	P	mB
Antimony	0.75	mg/kg	B	0.15	2.58	SW-846 6010B	P	
Arsenic	0.48	mg/kg	JB	0.28	1.72	SW-846 6010B	P	F
Barium	16.0	mg/kg		0.019	0.43	SW-846 6010B	P	
Beryllium	0.056	mg/kg	BJ	0.0021	0.21	SW-846 6010B	P	
Cadmium	0.32	mg/kg	B	0.0043	0.21	SW-846 6010B	P	mB
Calcium	1850	mg/kg	JB	0.98	4.300	SW-846 6010B	P	mB, F
Chromium	3.96	mg/kg		0.019	0.43	SW-846 6010B	P	
Cobalt	0.29	mg/kg	BJ	0.021	0.43	SW-846 6010B	P	
Copper	44.1	mg/kg		0.14	0.43	SW-846 6010B	P	
Iron	1370	mg/kg	JB	0.62	4.300	SW-846 6010B	P	mB, F
Lead	53.4	mg/kg		0.080	0.64	SW-846 6010B	P	
Magnesium	217	mg/kg		2.12	4.300	SW-846 6010B	P	
Manganese	20.4	mg/kg	JB	0.035	0.64	SW-846 6010B	P	F
Mercury	0.035	mg/kg	B	0.0022	0.011	SW-846 7471A	AV	mB
Nickel	1.88	mg/kg	JB	0.018	1.72	SW-846 6010B	P	mB, F
Potassium	33.1	mg/kg	JB	1.67	8.600	SW-846 6010B	P	mB, F
Selenium	1.72	mg/kg	U	0.11	1.72	SW-846 6010B	P	
Silver	0.43	mg/kg	U	0.023	0.43	SW-846 6010B	P	
Sodium	27.3	mg/kg	JB	2.81	43.00	SW-846 6010B	P	mB, F
Thallium	0.47	mg/kg	B	0.094	0.86	SW-846 6010B	P	mB
Vanadium	2.24	mg/kg		0.094	0.86	SW-846 6010B	P	
Zinc	111	mg/kg		0.32	0.86	SW-846 6010B	P	

c.A

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 21EB3W041028
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 204102908
Level: (low / med)
% Solids:
Lab Sample ID: 20410290813
Date Received: 10/29/04
Time: 1015
Date Collected: 10/28/04
Time: 1415

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.021	0.20	SW-846 6010B	P
Antimony	0.0060	mg/L	U	0.0023	0.0060	SW-846 6010B	P
Arsenic	0.0043	mg/L	~~B~~ J	0.0038	0.010	SW-846 6010B	P
Barium	0.20	mg/L	U	0.00050	0.20	SW-846 6010B	P
Beryllium	0.0040	mg/L	U	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00020	0.0050	SW-846 6010B	P
Calcium	0.12	mg/L	~~B~~ J	0.044	5.00	SW-846 6010B	P
Chromium	0.0050	mg/L	U	0.00070	0.0050	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00050	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0039	0.025	SW-846 6010B	P
Iron	0.017	mg/L	~~B~~ J	0.0055	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0010	0.0030	SW-846 6010B	P
Magnesium	5.00	mg/L	U	0.045	5.00	SW-846 6010B	P
Manganese	0.00072	mg/L	~~B~~ J	0.00060	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.00003	0.00020	SW-846 7470A	AV
Nickel	0.0011	mg/L	~~B~~ J	0.00040	0.040	SW-846 6010B	P
Potassium	0.13	mg/L	~~B~~ J	0.047	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0036	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00060	0.0050	SW-846 6010B	P
Sodium	0.11	mg/L	~~B~~ J	0.060	5.00	SW-846 6010B	P
Thallium	0.0020	mg/L	U	0.0016	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.0015	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0078	0.020	SW-846 6010B	P

C.P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 21EB4W041028
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 204102908
Level: (low / med)
% Solids:
Lab Sample ID: 20410290814
Date Received: 10/29/04
Time: 1015
Date Collected: 10/28/04
Time: 1550

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.021	0.20	SW-846 6010B	P
Antimony	0.0060	mg/L	U	0.0023	0.0060	SW-846 6010B	P
Arsenic	0.0071	mg/L	~~B~~ U	0.0038	0.010	SW-846 6010B	P
Barium	0.20	mg/L	U	0.00050	0.20	SW-846 6010B	P
Beryllium	0.0040	mg/L	U	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00020	0.0050	SW-846 6010B	P
Calcium	0.071	mg/L	~~B~~ U	0.044	5.00	SW-846 6010B	P
Chromium	0.0050	mg/L	U	0.00070	0.0050	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00050	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0039	0.025	SW-846 6010B	P
Iron	0.0087	mg/L	~~B~~ U	0.0055	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0010	0.0030	SW-846 6010B	P
Magnesium	5.00	mg/L	U	0.045	5.00	SW-846 6010B	P
Manganese	0.015	mg/L	U	0.00060	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.00003	0.00020	SW-846 7470A	AV
Nickel	0.00063	mg/L	~~B~~ U	0.00040	0.040	SW-846 6010B	P
Potassium	0.16	mg/L	~~B~~ U	0.047	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0036	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00060	0.0050	SW-846 6010B	P
Sodium	0.087	mg/L	~~B~~ U	0.060	5.00	SW-846 6010B	P
Thallium	0.0020	mg/L	U	0.0016	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.0015	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0078	0.020	SW-846 6010B	P

C. L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: 21DP2S041028

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Soil | SAS No.: | SDG No.: 204102908

Level: (low / med) | % Solids: 77.95 | Lab Sample ID: 20410290815

Date Received: 10/29/04 | Time: 1015 | Date Collected: 10/28/04 | Time: 0000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type	
Aluminum	123	mg/kg	B	2.32	10.2	SW-846 6010B	P	MB
Antimony	3.05	mg/kg	U	0.17	3.05	SW-846 6010B	P	
Arsenic	2.04	mg/kg	U	0.33	2.04	SW-846 6010B	P	
Barium	4.16	mg/kg		0.023	0.51	SW-846 6010B	P	
Beryllium	0.0092	mg/kg	~~B~~ J	0.0025	0.25	SW-846 6010B	P	
Cadmium	0.0099	mg/kg	B	0.0051	0.25	SW-846 6010B	P	MB
Calcium	108	mg/kg	JB	1.16	5.09	SW-846 6010B	P	MB, F, Z
Chromium	0.69	mg/kg		0.023	0.51	SW-846 6010B	P	
Cobalt	0.51	mg/kg	U	0.025	0.51	SW-846 6010B	P	
Copper	0.51	mg/kg	J	0.16	0.51	SW-846 6010B	P	Z
Iron	68.1	mg/kg	JB	0.73	5.09	SW-846 6010B	P	MB, F, Z
Lead	1.69	mg/kg	JB	0.094	0.76	SW-846 6010B	P	F, Z
Magnesium	5.57	mg/kg	J	2.51	5.09	SW-846 6010B	P	Z
Manganese	1.41	mg/kg	JB	0.042	0.76	SW-846 6010B	P	F, Z
Mercury	0.013	mg/kg	U	0.0026	0.013	SW-846 7471A	AV	
Nickel	0.12	mg/kg	JB	0.022	2.04	SW-846 6010B	P	MB, F
Potassium	13.5	mg/kg	JB	1.98	10.2	SW-846 6010B	P	MB, F
Selenium	2.04	mg/kg	U	0.13	2.04	SW-846 6010B	P	
Silver	0.51	mg/kg	U	0.027	0.51	SW-846 6010B	P	
Sodium	11.3	mg/kg	JB	3.33	50.9	SW-846 6010B	P	MB, F
Thallium	0.18	mg/kg	B	0.11	1.02	SW-846 6010B	P	MB
Vanadium	0.49	mg/kg	~~B~~ J	0.11	1.02	SW-846 6010B	P	
Zinc	5.38	mg/kg	J	0.38	1.02	SW-846 6010B	P	Z

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290801	21SS6AS041028	Solid	10/28/2004 15:05	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	80.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290803	21SS7AS041028	Solid	10/28/2004 14:30	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	84.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290804	21SS7BS041028	Solid	10/28/2004 14:40	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	83.1	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290805	21SS08S041028	Solid	10/28/2004 15:15	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	96.9	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

c.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290806	21SS09S041028	Solid	10/28/2004 15:20	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	92.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290807	21SS10S041028	Solid	10/28/2004 14:50	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	84.9	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

c. h

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290808	21SS11S041028	Solid	10/28/2004 14:45	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	92.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290809	21SS12S041028	Solid	10/28/2004 15:25	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	99.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290810	21SS13S041028	Solid	10/28/2004 15:30	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	98.9	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

CL

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	96.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290812	21SS15S151028	Solid	10/28/2004 14:55	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/29/2004 11:46	LMC2	282337

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	97.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C. A

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290815	21DP2S041028	Solid	10/28/2004 00:00	10/29/2004 10:15

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2004 10:15	LMC2	282454

CAS#	Parameter	Result	RDL	MDL	Units
C-006	Total Solids	78.00	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

CF

General Chemistry Quality Control Summary

Analytical Batch 282337	**Client ID**	PRESSED CAKE (268836)		200488DUP		
Prep Batch N/A	**GCAL ID**	20410260301		201537		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/29/2004 11:46		10/29/2004 11:46		
	Matrix	Solid		Solid		
2540 G Total Solids - Solid		**Units** **Result**	% **RDL**	**Result**	**RPD**	**RPD Limit**
C-008	Total Solids	22.8	0.010	23.0	0.87	25

Analytical Batch 282454	**Client ID**	21DP2S041028		201545DUP		
Prep Batch N/A	**GCAL ID**	20410290815		202069		
	Sample Type	FLDDUP		DUP		
	Analytical Date	11/01/2004 10:15		11/01/2004 10:15		
	Matrix	Solid		Solid		
2540 G Total Solids - Solid		**Units** **Result**	% **RDL**	**Result**	**RPD**	**RPD Limit**
C-008	Total Solids	78.0	0.010	78.2	0.26	25

001031

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
314438-001

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
N.S. Mayport	314438	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Building 191 - Contaminated Soil Delineation at Bldg 191	CTO 021	801528	Bonnie Hogue CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	SVOCs by 8270 - 16 listed PAHs incl. 1-and 2-Methylnaphthalene by ~~8270~~ (Low Level); TAL Metals by 6010B; Pesticides by 8081A; PCBs by 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS 704100719-	LAB ID
1	21SS01S041006	Delineation Sample SS-01 @ 0-1 foot bls	S	10/06/04	11:15	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	-1
2	21SS02S041006	Delineation Sample SS-02 @ 0-1 foot bls	S	10/06/04	11:25	III/C	3 Day	1		Composite	Extract Upon Receipt, **do not** perfom analyses until client notification Analyze per client 10/12/04	2
3	21SS03S041006	Delineation Sample SS-03 @ 0-1 foot bls	S	10/06/04	11:35	III/C	3 Day	1		Composite	Extract Upon Receipt, **do not** perfom analyses until client notification	3
4	21SS04S041006	Delineation Sample SS-04 @ 0-1 foot bls	S	10/06/04	11:45	III/C	3 Day	1		Composite	Extract Upon Receipt, **do not** perfom analyses until client notification	4
5	21SS05S041006	Delineation Sample SS-05 @ 0-1 foot bls	S	10/06/04	11:55	III/C	3 Day	1		Composite	Extract Upon Receipt, **do not** perfom analyses until client notification	5
6	21EB1W041006	Pre-Equipment Rinsate Blank	W	10/06/04	11:05	III/C	14 Day	4		Grab	Perform listed analyses upon receipt	6
7	21EB2W041006	Post-Equipment Rinsate Blank	W	10/06/04	12:05	III/C	14 Day	4		Grab	Perform listed analyses upon receipt	7
8	21MS1S041006	Matrix Spike (21SS01S041006)	S	10/06/04	11:15	III/C	14 Day	1		Composite	Perform listed analyses upon receipt	8
9	21MSD1S041006	Matrix Spike Duplicate (21SS01S041006)	S	10/06/04	11:15	III/C	14 Day	1		Composite	Perform listed analyses upon receipt	9
10	21DP1S041006	Duplicate No. 01	S	10/06/04	--	III/C	14 Day	1		Composite	Perform listed analyses upon receipt	10

g	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Jeff Marks CH2M HILL Constructors, Inc.	UPS Tracking Numbers: 1Z 2AE 048 01 9668 3322, 1Z 2AE 048 01 9635 0137.	3° C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Randy Dumaop	10/6/2004	18:00	UPS Tracking Numbers: 1Z 2AE 048 01 9668 3322, 1Z 2AE 048 01 9635 0137.	10/6/2004	18:00
Printed Name and Signature:			Printed Name and Signature:		
UPS	10/7/04	1000	Anna Kincher	10/7/04	1000

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Form CCI001, Rev 02/00

001052

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
314438-002

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
N.S. Mayport	314438	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Building 191 - Contaminated Soil Delineation at Bldg 191	CTO 021	801528	Bonnie Hogue CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	SVOCs by 8270; 16 listed PAHs incl. 1-and 2-Methylnaphthalene by ~~8310 (Soil Level)~~ 8270; TAL Metals by 6010B; Pesticides by 8081A; PCBs by 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS 204102908	LAB ID
1	21SS6AS041028	Delineation Sample SS-06 @ 2-3 foot bls	S	10/28/04	15:05	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	1
2	21SS6BS041028	Delineation Sample SS-06 @ 3-4 foot bls	S	10/28/04	15:10	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	2
3	21SS7AS041028	Delineation Sample SS-07 @ 2-3 foot bls	S	10/28/04	14:30	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	3
4	21SS7BS041028	Delineation Sample SS-07 @ 3-4 foot bls	S	10/28/04	14:40	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	4
5	21SS08S041028	Delineation Sample SS-08 @ 0-1' bls (slope)	S	10/28/04	15:15	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	5
6	21SS09S041028	Delineation Sample SS-09 @ 0-1' bls (slope)	S	10/28/04	15:20	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	6
7	21SS10S041028	Delineation Sample SS-10 @ 0-1' bls (slope)	S	10/28/04	14:50	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	7
8	21SS11S041028	Delineation Sample SS-11 @ 0-1' bls (slope)	S	10/28/04	14:45	III/C	3 Day	1		Composite	Perform listed analyses upon receipt	8
9	21SS12S041028	Delineation Sample SS-12 @ 0-1' bls (crest)	S	10/28/04	15:25	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	9
10	21SS13S041028	Delineation Sample SS-13 @ 0-1' bls (crest)	S	10/28/04	15:30	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	10

g	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Jeff Marks CH2M HILL Constructors, Inc.	UPS Tracking Numbers: 1Z 2AE 048 01 9049 6189, 1Z2AE 048 01 9303 8392 , 1Z 2AE 048 01 9331 2200	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Randy Dumaop	10/28/2004	18:00	UPS Tracking Numbers: 1Z 2AE 048 01 9049 6189, 1Z2AE 048 01 9303 8392 , 1Z 2AE 048 01 9331 2200	10/28/2004	18:00
Printed Name and Signature:			Printed Name and Signature:		
~~FedEx~~ UPS	10/29/04	1015	Anna Kinchen	10/29/04	1015

AMC

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Form CC1001, Rev 02/00

3°C

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
314438-002

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
N.S. Mayport	314438	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Building 191 - Contaminated Soil Delineation at Bldg 191	CTO 021	801528	Bonnie Hogue CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	SVOCs by 8270; 16 listed PAHs incl. 1-and 2-Methylnaphthalene by ~~8310 (Low Level~~; TAL Metals by 6010B; Pesticides by 8081A; PCBs by 8082		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS 204 102908	LAB ID
1	21SS14S041028	Delineation Sample SS-14 @ 0-1' bls (crest)	S	10/28/04	15:00	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	-11
2	21SS15S151028	Delineation Sample SS-15 @ 0-1' bls (crest)	S	10/28/04	14:55	III/C	3 Day	1		Composite	Extract Upon Receipt, do not perfom analyses until client notification	12
3	21EB3W041028	Pre-Equipment Rinsate Blank	W	10/28/04	14:15	III/C	14 Day	7		Composite	Perform listed analyses upon receipt	13
4	21EB4W041028	Post-Equipment Rinsate Blank	W	10/28/04	15:50	III/C	14 Day	7		Composite	Perform listed analyses upon receipt	14
5	21MS2S041028	Matrix Spike (21SS01S041006)	S	10/28/04	14:30	III/C	14 Day	1		Composite	Perform listed analyses upon receipt	16
6	21MSD2S041028	Matrix Spike Duplicate (21SS01S041006)	S	10/28/04	14:30	III/C	14 Day	1		Grab	Perform listed analyses upon receipt	17
7	21DP2S041028	Duplicate No. 01	S	10/28/04	--	III/C	14 Day	1		Grab	Perform listed analyses upon receipt	15
8												
9												
10												

g	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Jeff Marks CH2M HILL Constructors, Inc.	UPS Tracking Numbers: 1Z 2AE 048 01 9049 6189, 1Z2AE 048 01 9303 8392 , 1Z 2AE 048 01 9331 2200	3C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Randy Dumaop	10/28/2004	18:00	Printed Name and Signature: UPS Tracking Numbers: 1Z 2AE 048 01 9049 6189, 1Z2AE 048 01 9303 8392 , 1Z 2AE 048 01 9331 2200	10/28/2004	18:00
Printed Name and Signature: UPS	10/29/04 @	1015	Printed Name and Signature: Anna Kocher	10/29/04	1015

001035

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Form CCI001, Rev 02/00

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

8270C, SemiVolatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 11:00	282357	3550B	1	10/30/2004 11:13	JAR3	282382

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	6.85U	6.85	6.85	ug/Kg
95-95-4	2,4,5-Trichlorophenol	342U	342	10.2	ug/Kg
88-06-2	2,4,6-Trichlorophenol	342U	342	9.14	ug/Kg
120-83-2	2,4-Dichlorophenol	342U	342	7.86	ug/Kg
105-67-9	2,4-Dimethylphenol	342U	342	85.1	ug/Kg
51-28-5	2,4-Dinitrophenol	1710U	1710	107	ug/Kg
121-14-2	2,4-Dinitrotoluene	342U	342	5.29	ug/Kg
606-20-2	2,6-Dinitrotoluene	342U	342	18.1	ug/Kg
91-58-7	2-Chloronaphthalene	342U	342	6.67	ug/Kg
95-57-8	2-Chlorophenol	342U	342	58.3	ug/Kg
91-57-6	2-Methylnaphthalene	6.85U	6.85	6.85	ug/Kg
88-74-4	2-Nitroaniline	1710UJ-C	1710	8.56	ug/Kg
88-75-5	2-Nitrophenol	342U	342	6.600	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	685U	685	19.2	ug/Kg
99-09-2	3-Nitroaniline	1710U	1710	4.600	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1710U	1710	34.1	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	342U	342	7.06	ug/Kg
59-50-7	4-Chloro-3-methylphenol	342U	342	8.93	ug/Kg
106-47-8	4-Chloroaniline	342U	342	20.2	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	342U	342	12.1	ug/Kg
100-01-6	4-Nitroaniline	1710U	1710	5.06	ug/Kg
100-02-7	4-Nitrophenol	1710U	1710	5.09	ug/Kg
83-32-9	Acenaphthene	34.2U	34.2	4.36	ug/Kg
208-96-8	Acenaphthylene	34.2U	34.2	4.52	ug/Kg
98-86-2	Acetophenone	342U	342	14.6	ug/Kg
120-12-7	Anthracene	34.2U	34.2	4.600	ug/Kg
1912-24-9	Atrazine (Aatrex)	685UJ-C,R	685	11.7	ug/Kg
100-52-7	Benzaldehyde	685UR-C	685	12.7	ug/Kg
56-55-3	**Benzo(a)anthracene**	**35.2**	**6.85**	**3.58**	**ug/Kg**
50-32-8	**Benzo(a)pyrene**	**29.2**	**6.85**	**3.12**	**ug/Kg**
205-99-2	**Benzo(b)fluoranthene**	**40.4**	**6.85**	**6.85**	**ug/Kg**
191-24-2	Benzo(g,h,i)perylene	26.5J	34.2	6.17	ug/Kg
207-08-9	**Benzo(k)fluoranthene**	**20.1**	**6.85**	**6.85**	**ug/Kg**
92-52-4	Biphenyl	342U	342	5.60	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	342U	342	9.05	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	342U	342	60.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	342U	342	67.3	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	14.3J B-MB	342	7.68	ug/Kg
85-68-7	Butyl benzyl phthalate	342U	342	7.02	ug/Kg
105-60-2	Caprolactam	342UJ-C	342	6.85	ug/Kg
86-74-8	Carbazole	342U	342	4.900	ug/Kg
218-01-9	Chrysene	34.2U	34.2	4.89	ug/Kg
84-74-2	Di-n-butyl phthalate	342U	342	8.86	ug/Kg
117-84-0	Di-n-octyl phthalate	342U	342	15.1	ug/Kg
53-70-3	**Dibenz(a,h)anthracene**	**11.8J-C**	**6.85**	**6.17**	**ug/Kg**
132-64-9	Dibenzofuran	342U	342	3.96	ug/Kg
84-66-2	Diethyl phthalate	342U	342	7.11	ug/Kg
131-11-3	Dimethyl phthalate	342U	342	10.0	ug/Kg
206-44-0	Fluoranthene	12.7J	34.2	5.04	ug/Kg
86-73-7	Fluorene	34.2U	34.2	4.15	ug/Kg

RESUBMITTED
12/16/04

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

8270C, SemiVolatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 11:00	282357	3550B	1	10/30/2004 11:13	JAR3	282382

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	342U	342	7.21	ug/Kg
87-68-3	Hexachlorobutadiene	342U J-C	342	63.8	ug/Kg
77-47-4	Hexachlorocyclopentadiene	342U	342	43.9	ug/Kg
67-72-1	Hexachloroethane	342U	342	108	ug/Kg
193-39-5	**Indeno(1,2,3-cd)pyrene**	**128**	**6.85**	**6.85**	**ug/Kg**
78-59-1	Isophorone	342U	342	5.56	ug/Kg
91-20-3	Naphthalene	34.2U	34.2	6.85	ug/Kg
98-95-3	Nitrobenzene	342U	342	56.4	ug/Kg
87-86-5	Pentachlorophenol	1710U	1710	64.3	ug/Kg
85-01-8	Phenanthrene	34.2U	34.2	1.56	ug/Kg
108-95-2	Phenol	342U	342	8.88	ug/Kg
129-00-0	Pyrene	19.5J	34.2	5.23	ug/Kg
1319-77-3MP	m,p-Cresol	342U	342	14.4	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	342U	342	7.93	ug/Kg
86-30-6	n-Nitrosodiphenylamine	342U	342	14.7	ug/Kg
95-48-7	o-Cresol	342U	342	100	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1390	ug/Kg	83	33 - 116
321-60-8	2-Fluorobiphenyl	1670	1330	ug/Kg	80	30 - 118
1718-51-0	Terphenyl-d14	1670	1180	ug/Kg	71	26 - 135
4165-62-2	Phenol-d5	3330	2580	ug/Kg	77	25 - 117
367-12-4	2-Fluorophenol	3330	2140	ug/Kg	64	28 - 106

RESULTS REPORTED ON A DRY WEIGHT BASIS

RESUBMITTED
12/16/04

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

8082, PCBs

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 14:00	282356	3550B	1	11/08/2004 16:08	DLB	282890

CAS#	Parameter	Result	RDL	MDL	Units
12674-11-2	Aroclor-1016	41.5U	41.5	3.13	ug/Kg
11104-28-2	Aroclor-1221	41.5U	41.5	9.51	ug/Kg
11141-16-5	Aroclor-1232	41.5U	41.5	10.4	ug/Kg
53469-21-9	Aroclor-1242	41.5U	41.5	12.2	ug/Kg
12672-29-6	Aroclor-1248	41.5U	41.5	8.10	ug/Kg
11097-69-1	Aroclor-1254	41.5U	41.5	6.73	ug/Kg
11096-82-5	Aroclor-1260	41.5U	41.5	3.13	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
2051-24-3	Decachlorobiphenyl	16.7	14.4	ug/Kg	86	56 - 159

RESULTS REPORTED ON A DRY WEIGHT BASIS

RESUBMITTED
12/10/04

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

8081A,Pesticides

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 14:00	282355	3550B	1	10/30/2004 20:49	DLB	282470

CAS#	Parameter	Result	RDL	MDL	Units
72-54-8	4,4'-DDD	4.15U	4.15	0.488	ug/Kg
72-55-9	4,4'-DDE	1.55J	4.15	0.674	ug/Kg
50-29-3	4,4'-DDT	1.19J	4.15	0.259	ug/Kg
309-00-2	Aldrin	2.08U	2.08	0.332	ug/Kg
60-57-1	Dieldrin	4.15U	4.15	0.291	ug/Kg
959-98-8	Endosulfan I	2.08U	2.08	0.353	ug/Kg
33213-65-9	Endosulfan II	4.15U	4.15	0.581	ug/Kg
1031-07-8	Endosulfan sulfate	4.15U	4.15	0.5500	ug/Kg
72-20-8	Endrin	4.15U	4.15	0.353	ug/Kg
7421-93-4	Endrin aldehyde	4.15U	4.15	0.695	ug/Kg
53494-70-5	Endrin ketone	4.15U	4.15	0.872	ug/Kg
76-44-8	Heptachlor	2.08U	2.08	0.218	ug/Kg
1024-57-3	Heptachlor epoxide	2.08U	2.08	0.737	ug/Kg
72-43-5	Methoxychlor	20.8U	20.8	1.300	ug/Kg
8001-35-2	Toxaphene	208U	208	9.72	ug/Kg
319-84-6	alpha-BHC	2.08U	2.08	0.332	ug/Kg
5103-71-9	alpha-Chlordane	2.08U	2.08	0.374	ug/Kg
319-85-7	beta-BHC	4.15U	4.15	0.560	ug/Kg
319-86-8	delta-BHC	2.08U	2.08	0.332	ug/Kg
58-89-9	gamma-BHC (Lindane)	2.08U	2.08	0.654	ug/Kg
5103-74-2	gamma-Chlordane	2.08U	2.08	0.457	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-8	Tetrachloro-m-xylene	16.7	13.5	ug/Kg	81	52 - 151
2051-24-3	Decachlorobiphenyl	16.7	19.4	ug/Kg	116	56 - 159

RESULTS REPORTED ON A DRY WEIGHT BASIS

RESUBMITTED 12/10/04

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

Soil Mercury 7471A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 16:00	282334	SW-846 7471A	1	11/01/2004 13:40	NZN	282392

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.016B-MB	0.010	0.0021	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

RESUBMITTED
12/10/04

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20410290811	21SS14S041028	Solid	10/28/2004 15:00	10/29/2004 10:15

SW-846 6010B - Solid - ICP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/29/2004 16:00	282333	3050B	1	10/30/2004 15:38	JAC	282365

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**258** B-MB	**8.23**	**1.88**	**mg/kg**
7440-36-0	Antimony	2.47U	2.47	0.14	mg/kg
7440-38-2	Arsenic	1.65U	1.65	0.27	mg/kg
7440-39-3	**Barium**	**7.71**	**0.41**	**0.019**	**mg/kg**
7440-41-7	Beryllium	0.066~~B~~ J	0.21	0.0021	mg/kg
7440-43-9	Cadmium	0.067B-MB	0.21	0.0041	mg/kg
7440-70-2	**Calcium**	**1150** JB-F,MB	**4.12**	**0.94**	**mg/kg**
7440-47-3	**Chromium**	**1.62**	**0.41**	**0.019**	**mg/kg**
7440-48-4	Cobalt	0.14~~B~~ J	0.41	0.021	mg/kg
7440-50-8	**Copper**	**2.29**	**0.41**	**0.13**	**mg/kg**
7439-89-6	**Iron**	**597** JB-F,MB	**4.12**	**0.59**	**mg/kg**
7439-92-1	**Lead**	**11.3**	**0.62**	**0.076**	**mg/kg**
7439-95-4	**Magnesium**	**49.5**	**4.12**	**2.03**	**mg/kg**
7439-96-5	**Manganese**	**8.11** JB-F	**0.62**	**0.034**	**mg/kg**
7440-02-0	Nickel	0.43~~B~~ JB-F,MB	1.65	0.017	mg/kg
7440-09-7	**Potassium**	**25.3** JB-F,MB	**8.23**	**1.600**	**mg/kg**
7782-49-2	Selenium	1.65U	1.65	0.10	mg/kg
7440-22-4	Silver	0.41U	0.41	0.022	mg/kg
7440-23-5	Sodium	23.4~~B~~ JB-F,MB	41.2	2.69	mg/kg
7440-28-0	Thallium	0.19B-MB	0.82	0.090	mg/kg
7440-62-2	**Vanadium**	**1.38**	**0.82**	**0.090**	**mg/kg**
7440-66-6	**Zinc**	**17.8**	**0.82**	**0.30**	**mg/kg**

RESULTS REPORTED ON A DRY WEIGHT BASIS

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12/10/04

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Calibration File Names:
Level 1: /var/chem/MSSV3.i/2040924.s.b/b2578.d
Level 2: /var/chem/MSSV3.i/2040924.s.b/b2577.d
Level 3: /var/chem/MSSV3.i/2040924.s.b/b2579.d
Level 4: /var/chem/MSSV3.i/2040924.s.b/b2580.d
Level 5: /var/chem/MSSV3.i/2040924.s.b/b2581.d
Level 6: /var/chem/MSSV3.i/2040907p.s.b/b2114.d
Level 7: /var/chem/MSSV3.i/2041016.s.b/b3342.d
Level 8: /var/chem/MSSV3.i/2041016.s.b/b3343.d

Compound	10 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	1 Level 7	0.2000 Level 8									
1 n-Nitrosodimethylamine	0.15754	0.16524	0.17628	0.19069	0.18710	+++++					
	+++++	+++++					AVRG		0.17537		8.03312
2 Pyridine	0.61866	0.65068	0.59371	0.59986	0.59283	+++++					
	+++++	+++++					AVRG		0.61115		3.99616
5 Aniline	3.61076	3.19109	2.87933	2.55293	+++++	+++++					
	2.60606	+++++					AVRG		2.96803		14.82130
6 Phenol +	4.41910	4.14221	3.80718	3.95476	3.73191	3.56409					
	+++++	+++++					AVRG		3.93654		7.81180
7 bis(-2-Chloroethyl)Ether	2.32538	2.21483	2.22315	2.20830	2.14303	2.07490					
	1.69441	+++++					AVRG		2.12629		9.65796

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Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
8 2-Chlorophenol	1.50308	1.46832	1.46329	1.47478	1.40638	1.36283					
	+++++	+++++					AVRG		1.44645		3.57502
9 1,3-Dichlorobenzene	1.87541	1.76568	1.76881	1.72446	1.74744	1.69981					
	+++++	+++++					AVRG		1.76360		3.43913
11 1,4-Dichlorobenzene +	1.78493	1.75026	1.71339	1.71843	1.70502	1.67147					
	+++++	+++++					AVRG		1.72392		2.27126
12 Benzyl alcohol	1.54151	1.56327	1.52563	1.57673	1.45733	1.42175					
	+++++	+++++					AVRG		1.51437		4.06793
13 1,2-Dichlorobenzene	1.77552	1.62177	1.58161	1.57118	1.55894	1.52242					
	+++++	+++++					AVRG		1.60524		5.57122
14 Bis(2-chloroisopropyl)ether	1.69238	1.44118	1.33759	1.30479	1.26518	1.25569					
	1.76734	+++++					AVRG		1.43774		14.59295
15 2-Methylphenol	2.24118	2.01918	1.91743	1.93167	1.82980	1.77661					
	+++++	+++++					AVRG		1.95264		8.42867
16 N-Nitroso-di-n-propylamine++	2.80599	2.63890	2.47139	2.47987	2.16133	2.01688					
	2.46585	+++++					AVRG		2.43432		11.03828
17 3- & 4-Methylphenol	2.24846	2.09124	1.96518	1.98793	1.83875	1.80604					
	+++++	+++++					AVRG		1.98960		8.24001

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Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
18 Hexachloroethane	0.97529	0.99042	0.97175	0.94730	0.92365	0.88609					
	1.15308	+++++					AVRG		0.97823		8.67387
20 Nitrobenzene	1.01335	1.02387	1.02097	1.00052	0.91889	0.91211					
	0.89330	+++++					AVRG		0.96900		5.98069
21 Isophorone	1.49346	1.47927	1.51031	1.53193	1.39530	1.44118					
	+++++	+++++					AVRG		1.47524		3.36791
22 2-Nitrophenol +	0.18435	0.19481	0.19432	0.19316	0.18015	0.18357					
	+++++	+++++					AVRG		0.18839		3.41212
23 2,4-Dimethyphenol	0.70173	0.67417	0.66793	0.66457	0.61645	0.62762					
	+++++	+++++					AVRG		0.65874		4.78213
24 bis(-2-Chloroethoxy)methane	0.94512	0.94214	0.94562	0.91700	0.85176	0.86456					
	+++++	+++++					AVRG		0.91103		4.66592
25 Benzoic Acid	+++++	0.24351	0.24768	0.26832	0.23442	0.23655					
	+++++	+++++					AVRG		0.24609		5.49110
26 2,4-Dichlorophenol +	0.29821	0.28937	0.28591	0.28234	0.25643	0.26500					
	+++++	+++++					AVRG		0.27954		5.63111
27 1,2,4-Trichlorobenzene	0.32360	0.31332	0.32156	0.31006	0.30483	0.31201					
	+++++	+++++					AVRG		0.31423		2.26419

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Compound	10 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	1 Level 7	0.2000 Level 8									
29 Naphthalene	1.19591	1.10047	1.09464	1.07077	1.01956	1.03615					
	1.24987	+++++					AVRG		1.10963		7.57968
30 4-Chloroaniline	0.48219	0.44742	0.43581	0.45350	0.39605	0.40428					
	+++++	+++++					AVRG		0.43654		7.36634
31 Hexachlorobutadiene +	0.23546	0.23305	0.24177	0.23398	0.23584	0.23904					
	0.24994	0.35749					AVRG		0.25332		16.75482
32 4-Chloro-3-Methylphenol +	0.52576	0.51875	0.51092	0.53671	0.46208	0.48831					
	0.38514	+++++					AVRG		0.48967		10.70979
33 2-Methylnaphthalene	0.69714	0.66694	0.65545	0.64081	0.60657	0.62965					
	0.63118	0.76482					AVRG		0.66157		7.53440
34 Hexachlorocyclopentadiene ++	4215	43984	97958	116537	171207	213995					
	+++++	+++++					LINR	0.33917	0.41188		0.99414
35 2,4,6-Trichlorophenol +	0.39604	0.41215	0.43843	0.41942	0.43049	0.43039					
	0.37585	+++++					AVRG		0.41468		5.34259
36 2,4,5-Trichlorphenol	0.40809	0.43203	0.42732	0.43593	0.40897	0.40747					
	0.48670	+++++					AVRG		0.42950		6.50905
38 2-Chloronaphthalene	1.26228	1.20720	1.26510	1.20083	1.22696	1.23032					
	+++++	+++++					AVRG		1.23212		2.18605

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Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
39 2-Nitroaniline	0.45880	0.49044	0.50256	0.50926	0.47885	0.47230						
	0.44935	0.06755					AVRG		0.42864		34.37094	<-
40 Dimethylphthalate	1.29531	1.35255	1.38616	1.38720	1.24093	1.34683						
	+++++	+++++					AVRG		1.33483		4.26633	
41 2,6-Dinitrotoluene	0.28789	0.29534	0.28752	0.30659	0.26807	0.29266						
	+++++	+++++					AVRG		0.28968		4.37074	
42 Acenaphthylene	2.07355	2.04197	2.03129	1.98205	1.91116	1.93034						
	2.11221	+++++					AVRG		2.01180		3.67708	
43 3-Nitroaniline	0.34665	0.37020	0.37962	0.41220	0.35949	0.37668						
	+++++	+++++					AVRG		0.37414		5.94195	
45 Acenaphthene +	1.25782	1.22245	1.21062	1.22453	1.17263	1.20764						
	1.44084	+++++					AVRG		1.24808		7.10610	
46 2,4-Dinitrophenol ++	+++++	0.16854	0.18773	0.23161	0.20488	0.24269						
	+++++	+++++					AVRG		0.20709		14.75427	
47 Dibenzofuran	1.73528	1.72130	1.66994	1.66514	1.58889	1.63934						
	+++++	+++++					AVRG		1.66998		3.21756	
48 2,4-Dinitrotoluene	0.36422	0.40514	0.38228	0.43985	0.39008	0.42359						
	+++++	+++++					AVRG		0.40086		6.92984	

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Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 1 Level 7	50 Level 2 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 4-Nitrophenol ++	0.28183	0.33792	0.34554	0.40531	0.35595	0.38192					
	+++++	+++++					AVRG		0.35141		12.01578
50 Diethylphthalate	1.25521	1.23843	1.20338	1.37619	1.20909	1.30146					
	+++++	+++++					AVRG		1.26396		5.17715
51 Fluorene	1.39007	1.33190	1.33874	1.37315	1.28845	1.39075					
	1.40646	+++++					AVRG		1.35993		3.08221
52 4-Chlorophenyl-phenylether	0.66191	0.65274	0.63990	0.66025	0.62270	0.67968					
	+++++	+++++					AVRG		0.65286		3.01185
53 4-Nitroaniline	0.37143	0.35508	0.36213	0.41899	0.37098	0.39191					
	+++++	+++++					AVRG		0.37842		6.18874
54 4,6-Dinitro-o-cresol	0.10549	0.14033	0.13858	0.15250	0.15093	0.14566					
	+++++	+++++					AVRG		0.13892		12.44128
55 N-nitrosodiphenylamine (1)+	0.63894	0.60931	0.55019	0.53924	0.51947	0.50758					
	0.62761	+++++					AVRG		0.57033		9.44315
56 Azobenzene	2.46882	2.33932	2.24334	2.04573	2.00179	2.09487					
	+++++	+++++					AVRG		2.19898		8.32803
58 4-Bromophenyl-phenylether	0.22054	0.22846	0.22786	0.20774	0.22284	0.20688					
	+++++	+++++					AVRG		0.21905		4.37198

0001197
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GCAL, Inc.

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
59 Hexachlorobenzene	0.28285	0.28048	0.29077	0.27992	0.28895	0.29599					
	0.32413	+++++					AVRG		0.29187		5.27304
60 Pentachlorophenol +	+++++	0.14597	0.13715	0.15627	0.16577	0.16170					
	+++++	+++++					AVRG		0.15337		7.64175
62 Phenanthrene	1.21918	1.16934	1.19103	1.13464	1.17763	1.12553					
	1.35681	+++++					AVRG		1.19631		6.49296
63 Anthracene	1.19055	1.11366	1.04663	1.07256	1.06711	1.03335					
	1.21449	+++++					AVRG		1.10548		6.43992
64 Carbazole	1.20464	1.11577	1.07586	1.13043	1.13557	1.09583					
	1.14296	+++++					AVRG		1.12872		3.62764
65 Di-n-butylphthalate	1.24338	1.22758	1.15407	1.23005	1.21062	1.16177					
	+++++	+++++					AVRG		1.20458		3.12893
M 66 Total Methylphenol	4.48964	4.11042	3.88261	3.91960	3.66855	3.58265					
	+++++	+++++					AVRG		3.94225		8.30685
67 Fluoranthene +	1.19889	1.16338	1.15203	1.22684	1.23617	1.18854					
	1.23658	+++++					AVRG		1.20035		2.87398
68 Benzidine	+++++	0.04132	0.05106	0.05369	0.04412	0.03509					
	+++++	+++++					AVRG		0.04505		16.63834 <-

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12/13/04

GCAL, Inc.

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Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
69 Pyrene	1.36955	1.26333	1.28262	1.24747	1.15617	1.20165					
	1.23417	+++++					AVRG		1.25071		5.35661
71 Butylbenzylphthalate	0.66476	0.65358	0.60798	0.59889	0.57168	0.57366					
	+++++	+++++					AVRG		0.61176		6.45446
72 Benzo(a)anthracene	68639	323319	532822	815439	989614	1337756					
	7515	2701					LINR	0.01672	1.23285		0.99930
73 3,3'-Dichlorobenzidine	0.43488	0.39337	0.37252	0.38571	0.38498	0.38434					
	+++++	+++++					AVRG		0.39264		5.53940
75 Chrysene	1.21762	1.21323	1.20033	1.17918	1.17214	1.19212					
	1.39273	+++++					AVRG		1.22391		6.23147
76 bis(2-Ethylhexyl)phthalate	0.98232	0.92787	0.81270	0.79362	0.77295	0.75452					
	0.96674	+++++					AVRG		0.85867		11.28065
77 Di-n-octylphthalate +	1.81613	1.79499	1.61387	1.50996	1.52999	1.47063					
	+++++	+++++					AVRG		1.62260		9.20780
78 Benzo(b)fluoranthene	1.08463	1.16522	1.20064	1.17027	1.18550	1.33388					
	1.06398	1.25519					AVRG		1.18241		7.33193
79 Benzo(k)fluoranthene	1.25279	1.24682	1.22467	1.26672	1.26963	1.20442					
	1.42136	1.82740					AVRG		1.33923		15.52164

0001199
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Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
80 Benzo(a)pyrene +	1.07034	1.08112	1.13106	1.13357	1.15237	1.15565						
	1.06238	1.56176					AVRG		1.16853		13.95848	
82 Indeno(1,2,3-cd)pyrene	86060	454259	777410	1285569	1759994	+++++						
	9459	1177					LINR	0.07519	1.72053		0.99570	
83 Dibenzo(a,h)anthracene	1.13238	1.20748	1.25054	1.35171	1.45347	1.54299						
	1.17319	0.76724					AVRG		1.23488		19.12327	
84 Benzo(g,h,i)perylene	1.24153	1.26204	1.32996	1.37110	1.47764	1.52200						
	1.33421	+++++					AVRG		1.36264		7.65934	
85 2-Picoline	2.27706	1.91977	1.82506	1.76869	1.74214	1.68652						
	+++++	+++++					AVRG		1.86987		11.48192	<-
86 N-Nitrosomethylethylamine	1.08348	1.19492	1.16761	0.87155	1.13092	0.86481						
	+++++	+++++					AVRG		1.05222		14.00722	<-
87 Methyl methanesulfonate	2.04992	1.73802	1.74383	1.72668	1.72297	1.70527						
	+++++	+++++					AVRG		1.78112		7.43154	<-
88 N-Nitrosodiethylamine	1.65013	1.46555	1.42937	1.39622	1.36914	1.33443						
	+++++	+++++					AVRG		1.44081		7.79067	<-
89 Ethyl methanesulfonate	2.98632	2.59331	2.48511	2.53624	2.50607	2.48265						
	+++++	+++++					AVRG		2.59828		7.48523	<-

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Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
90 Pentachloroethane	0.64361	0.53254	0.51706	0.49201	0.48158	0.46297						
	+++++	+++++					AVRG		0.52163		12.40668	<-
91 Acetophenone	3.34078	3.31643	3.35736	3.41527	3.20609	3.15885						
	+++++	+++++					AVRG		3.29913		2.94652	
92 O-Toluidine	4.88970	3.86250	3.47037	3.03170	2.66647	2.39867						
	+++++	+++++					AVRG		3.38657		26.78259	<-
93 N-Nitrosomorpholine	1.42839	1.15148	1.07605	1.02868	0.98319	0.93900						
	+++++	+++++					AVRG		1.10113		16.02636	<-
94 N-Nitrosopiperidine	0.25354	0.20727	0.19651	0.18871	0.18998	0.18614						
	+++++	+++++					AVRG		0.20369		12.55392	<-
95 0,0,0-Triethylphosphorothioat	0.19841	0.16909	0.16160	0.15516	0.15691	0.15268						
	+++++	+++++					AVRG		0.16564		10.30169	<-
96 Alpha,Alpha-Dimethylphenethyl	1.12749	0.78807	0.95186	0.94707	0.86513	0.78553						
	+++++	+++++					AVRG		0.91086		14.12777	<-
97 Hexachloropropene	0.23124	0.21647	0.21147	0.20431	0.21034	0.20574						
	+++++	+++++					AVRG		0.21326		4.60457	<-
98 2,6-Dichlorophenol	0.32609	0.27269	0.25720	0.24766	0.24431	0.23525						
	+++++	+++++					AVRG		0.26386		12.52132	<-

000201
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12/13/04

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
99 N-Nitrosodi-n-butylamine	0.59860	0.53851	0.50534	0.50155	0.49886	0.47897						
	+++++	+++++					AVRG		0.52030		8.24680	<-
100 p-Phenylenediamine	0.42550	0.09515	0.11409	0.10559	0.11378	0.09205						
	+++++	+++++					AVRG		0.15769		83.40158	<-
101 Isosafrole	0.17309	0.14391	0.13096	0.12631	0.12342	0.11890						
	+++++	+++++					AVRG		0.13610		14.72514	<-
102 1,2,4,5-Tetrachlorobenzene	0.35946	0.28891	0.26589	0.26103	0.25545	0.25130						
	+++++	+++++					AVRG		0.28034		14.60152	<-
103 Safrole	1.37419	1.06747	1.00752	0.94902	0.94536	0.91687						
	+++++	+++++					AVRG		1.04341		16.36672	<-
104 1,4-Naphthoquinone	0.43575	0.39135	0.32805	0.26699	0.21563	0.15229						
	+++++	+++++					AVRG		0.29834		35.96636	<-
105 m-Dinitrobenzene	0.19312	0.22033	0.20927	0.20685	0.20785	0.18831						
	+++++	+++++					AVRG		0.20429		5.71416	<-
106 Pentachlorobenzene	0.60748	0.53341	0.49582	0.49692	0.49399	0.48758						
	+++++	+++++					AVRG		0.51920		8.89908	<-
107 2-Napthylamine	1.49286	1.17757	1.00744	0.90283	0.80937	0.69626						
	+++++	+++++					AVRG		1.01439		28.27400	<-

000202
RESUBMITTED

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12/13/04

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
108 2,3,4,6-Tetrachlorophenol	0.25483	0.26237	0.24615	0.23529	0.22678	0.21752						
	+++++	+++++					AVRG		0.24049		7.10303	<-
109 1-Naphthylamine	1.47247	1.22230	1.07454	0.91839	0.85444	0.71610						
	+++++	+++++					AVRG		1.04304		26.27470	<-
110 Thionazin	0.43111	0.41237	0.38110	0.35666	0.33622	0.29556						
	+++++	+++++					AVRG		0.36884		13.55943	<-
111 5-Nitro-o-toluidine	0.39757	0.37013	0.33516	0.28842	0.27274	0.23062						
	+++++	+++++					AVRG		0.31577		19.96455	<-
112 Tetraethyldithiopyrophosphate	0.21711	0.20420	0.19429	0.20473	0.21064	0.21406						
	+++++	+++++					AVRG		0.20751		3.96369	<-
113 Diallate	0.36144	0.65254	0.60706	0.55672	0.50965	0.50730						
	+++++	+++++					AVRG		0.53245		18.96323	<-
114 Phorate	1.82130	1.46511	1.43425	1.27643	1.21295	1.05134						
	+++++	+++++					AVRG		1.37690		19.25712	<-
115 sym-Trinitrobenzene	0.04499	0.06070	0.06486	0.06669	0.07344	0.07043						
	+++++	+++++					AVRG		0.06352		15.88850	<-
116 Phenacetin	0.68293	0.58822	0.65092	0.62883	0.68032	0.61224						
	+++++	+++++					AVRG		0.64058		5.90867	<-

000203
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000204 RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
117 Dimethoate	0.73254	0.66984	0.69788	0.66923	0.70691	0.61525						
	+++++	+++++					AVRG		0.68194		5.93604	<-
118 Pentachloronitrobenzene	0.10445	0.09519	0.09301	0.09794	0.09856	0.09724						
	+++++	+++++					AVRG		0.09773		3.96091	<-
119 4-Aminobiphenyl	1.02956	0.82253	0.77267	0.68525	0.64279	0.57318						
	+++++	+++++					AVRG		0.75433		21.43929	<-
120 Pronamide	0.36859	0.33634	0.33927	0.32803	0.34068	0.32559						
	+++++	+++++					AVRG		0.33975		4.52606	<-
121 Dinoseb	0.11497	0.16926	0.17979	0.18401	0.19569	0.19288						
	+++++	+++++					AVRG		0.17277		17.28427	<-
122 Disulfoton	1.03607	0.91409	0.89449	0.85896	0.84846	0.79483						
	+++++	+++++					AVRG		0.89115		9.20916	<-
123 Methyl parathion	0.42379	0.41303	0.42905	0.40598	0.42139	0.37714						
	+++++	+++++					AVRG		0.41173		4.56920	<-
124 4-Nitroquinoline-1-oxide	0.03124	0.06678	0.08508	0.08775	0.09800	0.08419						
	+++++	+++++					AVRG		0.07551		31.66337	<-
125 Parathion	0.24321	0.24673	0.25027	0.23647	0.24797	0.22299						
	+++++	+++++					AVRG		0.24127		4.21369	<-

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000205 RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
126 Metapyrilene	0.85628	0.61101	0.69204	0.71949	0.80564	0.68505						
	+++++	+++++					AVRG		0.72825		12.18645	<-
127 Isodrin	0.15633	0.12348	0.13030	0.12073	0.11959	0.11502						
	+++++	+++++					AVRG		0.12758		11.72733	<-
128 Aramite	0.06530	0.06524	0.06441	0.06401	0.06310	0.06624						
	+++++	+++++					AVRG		0.06471		1.71078	<-
129 p-(Dimethylamino)azobenzene	0.62984	0.58806	0.56613	0.53934	0.52038	0.51609						
	+++++	+++++					AVRG		0.55997		7.83603	<-
130 Chlorobenzilate	0.41362	0.38052	0.36279	0.35470	0.35813	0.36318						
	+++++	+++++					AVRG		0.37216		5.95931	<-
131 Famphur	0.48281	0.23310	0.16700	0.08416	0.05001	0.04147						
	+++++	+++++					AVRG		0.17643		94.80537	<-
132 3,3'-Dimethyl benzidine	0.84190	0.62915	0.53295	0.44386	0.38459	0.36669						
	+++++	+++++					AVRG		0.53319		33.78956	<-
133 2-Acetylaminofluorene	0.47592	0.50268	0.52921	0.53029	0.52985	0.54300						
	+++++	+++++					AVRG		0.51849		4.76068	<-
134 7,12-Dimethylbenz(a)anthracen	0.34130	0.35046	0.35819	0.37655	0.37725	0.56464						
	+++++	+++++					AVRG		0.39473		21.39334	<-

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000206 RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 7	0.2000 Level 8										
135 Hexachlorophene	0.00012	0.00158	0.00556	0.01590	0.02772	0.03001						
	++++++	++++++					AVRG		0.01348		97.55410	<-
136 3-Methyl cholanthrene	0.63996	0.61769	0.62661	0.64927	0.65315	0.66181						
	++++++	++++++					AVRG		0.64142		2.60806	<-
137 Acrylamide	0.20884	0.28727	0.26744	0.32474	0.33982	++++++						
	++++++	++++++					AVRG		0.28562		18.10516	<-
138 N-Nitrosopyrrolidine	0.50926	0.32119	0.57782	0.56985	0.54846	++++++						
	++++++	++++++					AVRG		0.50532		21.03658	<-
139 Pthalic Acid & Anhydride	0.30675	0.14470	0.27335	0.26333	0.22668	++++++						
	++++++	++++++					AVRG		0.24296		25.47821	<-
140 1,4-Dinitrobenzene	0.39446	0.29342	0.55466	0.57157	0.55972	++++++						
	++++++	++++++					AVRG		0.47476		26.28727	<-
141 Kepone	0.07137	0.04657	0.10717	0.09825	0.10022	++++++						
	++++++	++++++					AVRG		0.08472		29.86560	<-
142 4,4Methylenebis2chloroanaline	0.16811	0.09913	0.19674	0.20027	0.20928	++++++						
	++++++	++++++					AVRG		0.17471		25.74236	<-
143 Tris2,3Dibromopropylphosphate	0.03764	0.03909	0.07692	0.08559	0.09478	++++++						
	++++++	++++++					AVRG		0.06680		40.00076	<-

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0002207 RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
144 Maleic Anhydride	0.81858	0.39304	0.26942	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.49368		58.35386	<-
145 1-Methylnapthalene	0.64231	0.60781	0.57755	0.57932	0.54170	0.56144						
	0.70128	0.70967					AVRG		0.61514		10.30361	
M 146 Total Methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
147 N-methyldiethanolamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
148 A-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
149 3-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
150 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
151 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
152 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

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12/10/04

000208 RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 7	0.2000 Level 8										
153 3,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
154 Dimethyl Benzyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
155 Benzaldehyde	1.71748	0.38576	0.85942	0.66080	0.52715	+++++						
	+++++	+++++					AVRG		0.83012		63.34891	<-
156 Caprolactam	0.15970	0.14450	0.11044	0.17544	0.11365	0.12916						
	+++++	+++++					AVRG		0.13882		18.62189	
157 Biphenyl	0.59407	0.56348	0.54882	0.57806	0.50147	0.54583						
	+++++	+++++					AVRG		0.55529		5.76156	
158 Atrazine	0.04604	0.03910	0.03174	0.03670	0.03442	0.03398						
	+++++	+++++					AVRG		0.03699		13.76370	<-
159 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
169 Benzenethiol	0.18269	0.13312	0.14459	0.14670	0.15035	+++++						
	+++++	+++++					AVRG		0.15149		12.27391	<-
170 Indene	0.00861	0.01651	0.01324	0.03335	0.03560	+++++						
	+++++	+++++					AVRG		0.02146		57.00872	<-

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000209
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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1 / 1 Level 7	50 Level 2 / 0.2000 Level 8	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
171 Quinoline	1.11038	0.91433	0.87320	0.86102	0.80809	+++++						
	+++++	+++++					AVRG		0.91340		12.75037	<-
172 Methyl Chrysene	1.02374	0.97793	0.99937	0.99753	0.96634	+++++						
	+++++	+++++					AVRG		0.99298		2.22007	<-
173 Dibenz(a,h)acridine	0.21198	0.24076	0.24787	0.26626	0.27408	+++++						
	+++++	+++++					AVRG		0.24819		9.79434	<-
174 2,4and/or2,6 Diaminotoluene	1.94994	2.02103	1.85712	1.66740	1.60602	1.59111						
	+++++	+++++					AVRG		1.78210		10.39294	<-
175 2,3and/or3,4 Diaminotoluene	1.82610	1.96706	1.82910	1.65727	1.61529	1.57933						
	+++++	+++++					AVRG		1.74569		8.68471	<-
$ 3 2-Fluorophenol	1.70011	1.80102	1.84024	1.83673	1.81238	1.80169						
	+++++	+++++					AVRG		1.79869		2.84492	
$ 4 Phenol-d5	3.28196	3.16484	3.02657	3.06316	2.87554	2.82085						
	+++++	+++++					AVRG		3.03882		5.69803	
$ 19 Nitrobenzene-d5	0.90631	0.91629	0.93765	0.91593	0.86578	0.87150						
	+++++	+++++					AVRG		0.90224		3.10684	

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000210
RESUBMITTED

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-AUG-2004 11:51
End Cal Date : 16-OCT-2004 12:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2041016.s.b/8270CE_03.m
Cal Date : 13-Dec-2004 15:22 rlw

Compound	10 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	200 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	1 Level 7	0.2000 Level 8									
$ 37 2-Fluorobiphenyl	1.49385	1.48485	1.54372	1.42285	1.43503	1.41762					
	+++++	+++++					AVRG		1.46632		3.38682
$ 57 2,4,6-Tribromophenol	0.21323	0.22125	0.22647	0.25924	0.22634	0.25953					
	+++++	+++++					AVRG		0.23434		8.52926
$ 70 Terphenyl-d14	0.86474	0.84311	0.86951	0.87855	0.80790	0.86553					
	+++++	+++++					AVRG		0.85489		3.01875

RESUBMITTED
12/13/04

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 21SS7AS041028

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204102908

Contract: Method: SW-846 8082

Prep Batch: 282356 Analytical Batch: 282471

Spike HSN : 20410290816

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	158	0	126	80		40 - 154
Aroclor-1260	ug/kg	158	0	122	77		40 - 168

Spike Dupe HSN : 20410290817

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	158	127	80		.9		40 - 154	0 - 43
Aroclor-1260	ug/kg	158	127	80		4		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

FORM III ORG-2

RESUBMITTED
12/13/04

000614

CORRECTED